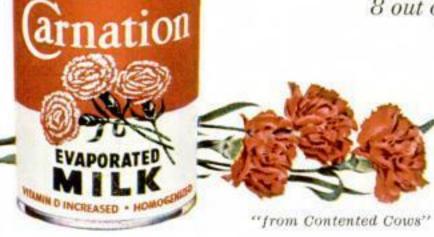


Contented...her doctor recommended Carnation

8 out of 10 mothers who feed their babies a Carnation formula say: "My doctor recommended it."

This is the milk used in more hospital formula rooms throughout the world than all other brands combined. And no wonder! For Carnation is the safest, most nourishing and digestible form of milk for baby's bottle. Ask *your* doctor about Carnation, the milk every doctor knows.



AUTOMATIC WASH AND WEAR SUIT

Just machine-wash...machine-dry...and wear

A FRESH SUIT WHENEVER YOU NEED IT!

This suit made with "Dacron" can be quickly washed and dried by machine...worn immediately with little, if any, ironing

This automatic wash and wear suit made with a high content of "Dacron" polyester fiber came out of a modern dryer ready to wear and requiring little, if any, ironing. This easy-care convenience lasts for the life of the garment. Come heat or even muggy weather, it'll keep its press, stay neat wearing after wearing. You can also wash this tropical by hand or machine, and hang it to drip dry, just as you do regular wash and wear. See this cool, comfortable and remarkably convenient suit soon. Also available: automatic wash 'n' wear slacks in a range of colors, patterns. At fine stores everywhere.



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY



LOOK FOR THIS GUIDE TO EXTRA BENEFITS

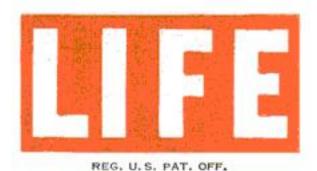
This and similar fiber-content tags featured on suits and slacks indicate that the fabric contains sufficient "Dacron" to provide the extra benefits that have made "Dacron" a national favorite.

*"Dacron" is Du Pont's registered trademark for its polyester fiber. Du Pont makes fibers, does not make the fabrics or suit shown here.









Peacetime tragedy

The hazards of modern war caught up with the 101st Airborne Division in peacetime training when vicious gusts of wind converted a practice parachute jump into tragedy.



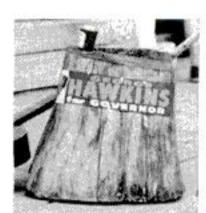
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Carnival of candidates

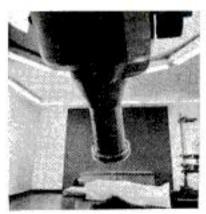
With picturesque props and hillbilly musicians, 14 candidates for governor swamp Alabama in showmanship that leaves voters confused but clapping.



CANDIDATE'S STUMP

Closing in on cancer

Finally man seems close to bringing under control his dread enemy, cancer. LIFE shows the newest weapons science has devised to bolster this fresh hope.



NEW CANCER WEAPON

How you really dream 120

If you think you dream occasionally, or for only a few seconds at a time, or in color, you are all wrong. New research tells how you really do dream.



DREAM FIGHT

Exotic fashions in Cuba 64

Romantic styles by three Cuban-born designers, all scoring U.S. fashion hits, are shown amid tropical colors and historic splendors of Trinidad de Cuba.



TAFFETA EVENING COAT

COVER

One of the huge supervoltage X-ray machines being brought into the battle against cancer is aimed at a patient with bladder cancer at the Lila Motley Radiation Clinic of New York's Hospital for Joint Diseases (see pp. 102-113)

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STORES MORE FOOD THAN ANY OTHER "12"-GIVES YOU EXCLUSIVE ROLL-IT-OUT CONVENIENCE, TOO

Compare the true capacity of this Hotpoint 2-door with that of any other major brand of comparable size

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Rolls Out From The Wall-the wonderfully useful feature, ex-

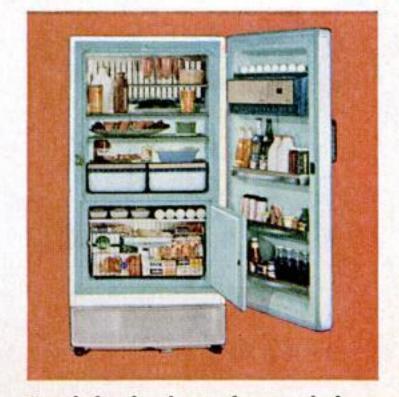
clusive with Hotpoint, that makes quick and easy work of any cleaning or decorating back of the cabinet. Just touch the toepedal lock, roll the cabinet out from the wall.

Proved Frost-Away automatic defrosting that's *truly* automatic. And your choice of beautiful Colortones or gleaming white. See this new Hotpoint at your dealer's now and . . . *compare*.

LOOK FOR THAT HOTPOINT DIFFERENCE

HOTPOINT CO. (A Division of General Electric Company), Chicago 44





Fresh foods above, freezer below. Another big Hotpoint "12"—has a supersize 115-lb. freezer. And it's on rollers, too.

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ENJOYABANA!



Calorie low!* Vitality high! Bananas belong in your daily diet!



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A medium banana has only 88
calories—and sweet, mellow
bananas are so satisfying!



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Bananas are so easy to digest doctors prescribe them as one of baby's first solid foods!



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Bananas provide vitamins and
minerals, plus wholesome fruit
sugars for energy.



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Easy to fix, easy to chew, easy to digest, bananas are perfect for older folks.



Vitality diets

Bananas are a wonderful-tasting way to get nutrition essentials you need for health!

Only 88 calories in a medium banana! Sweet and satisfying bananas are for you, if you want to control your weight painlessly. Want a snack that fills you up without filling you out? Havabanana. Want to satisfy your sweet tooth without spoiling your figure? Eatabanana. That rich, mellow flavor makes it easier to stick to your diet. And bananas provide a well-rounded supply of important vitamins and minerals to help keep your vitality high while your weight goes down.

UNITED FRUIT COMPANY

Help yourself-HAVABANANA!



Help yourself to a slender figure! Help yourself to better digestion! Help yourself to new vitality!

REMEMBER—a medium banana has only 88 calories.

Calorie low — Only 88 calories in a medium banana, according to the U.S. Dept. of Agriculture. Fruits as a class are low in calories, and bananas are a particularly low-calorie food because they are usually eaten straight from the peel with no high-calorie extras added.



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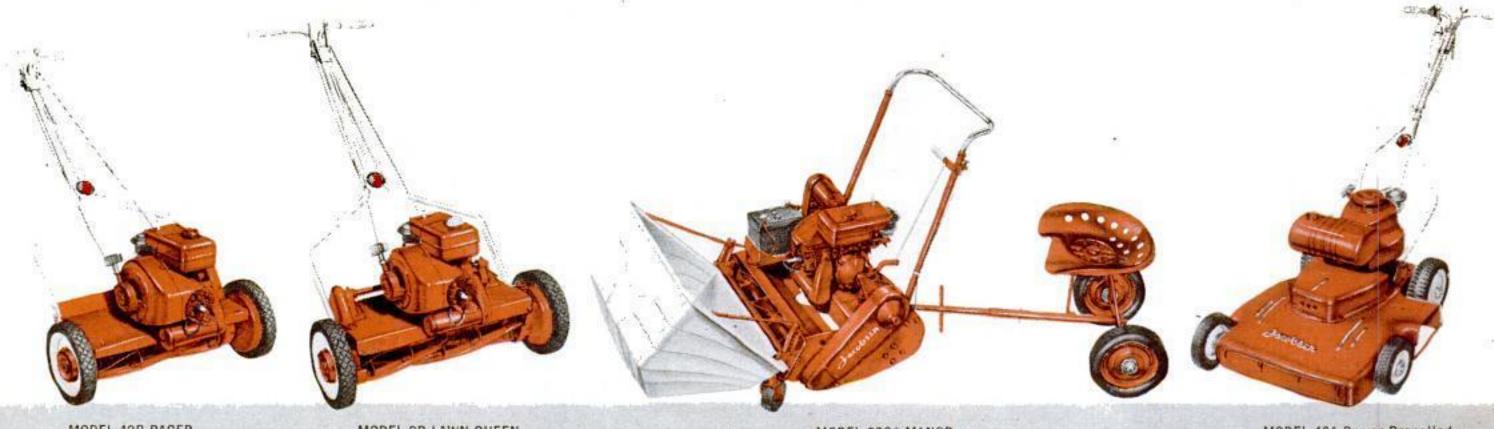
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There are large lawns, small lawns, lawns with flower beds, walks, shrubbery, trees, lawns with a wide expanse of grass, hilly, terraced or level lawnsyes, all kinds. Which kind is yours? Which Jacobsen Mower is best for you?

Your Jacobsen dealer is well qualified to advise you. Look under "Lawn Mowers" in the yellow pages of your telephone directory for Jacobsen nationwide sales and service. Prices slightly higher in Canada. Ask for a demonstration.



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You MUST Be Satisfied With Your Weight Loss . . . as much as 6 lbs. in 3 days, 10 lbs. the first week—or your money back!

No special eating, no starvation diets, no giving up the kinds of food you like. A new drug which acts directly to help reduce your overweight!

After years of medical research, we can now release it for the first time—an amazing new, fast-acting NO-DIET REDUCING DRUG FOR FAT PEOPLE! If you're normally healthy, you can now lose pound after pound without constant hunger pangs . . . without cruel diets . . . even without giving up all your favorite foods! Yes, you MUST be satisfied with your weight loss—as much as 6 pounds in 3 days, as much as 10 pounds the first week . . . or you don't pay a cent!

WHY IT SHOULD WORK FOR YOU NO MATTER WHAT YOU HAVE TRIED

Unless you have a super will power, you can NEVER reduce to your satisfaction with ordinary reducing methods. Doctors know that the one sure way to lose weight is to reduce caloric intake . . . to eat less. They often prescribe drugs for this purpose—and now, at last, they've found a NO-DIET REDUCING DRUG FOR FAT PEOPLE, safe enough to be used without prescription.

3-WAY ACTION MAKES IT EASIER AND FASTER TO LOSE POUND AFTER POUND AFTER POUND!

REGIMEN TABLETS are a combination of reducing drugs—the only one of its kind

available anywhere. Aspirin-size and easy to take, REGIMEN TABLETS contain no bulk-producing ingredients, and do not irritate your stomach. They work 3 amazing ways to obtain fast, easy, effective weight-loss.

- They suppress your appetite; you eat what you like, but even mouth-watering delicacies shouldn't tempt you to overstuff yourself.
- They force your body to lose weight immediately by removing "fluid weight".
- 3. They start traveling quickly through your blood stream, and you lose the TREMENDOUS URGE TO EAT. There's no need for super will power. You eat the same delicious foods as always... but, before you've eaten anywhere near your normal quantity you just don't want to eat any more! You feel full, completely satisfied—yet you lose weight faster and easier than you ever thought possible.

So start reducing the REGIMEN TABLET way today. Rid yourself of dangerous, excess weight if you want to live longer with less chance of heart disease, diabetes, high blood pressure, arthritis and rheumatism. REGIMEN TABLETS are guaranteed safe for normally healthy people when taken as directed on label. Get NO-DIET REGIMEN TABLETS at your drug store today.

*Why The REGIMEN TABLET "No-Diet" Method Is Better Than Others

You know how you had to count calories, use super will power and stick to a rigid diet with other reducing methods—such as "hunger strikes", fad diets, reducing candies, cookies, powders or bulk-producing pills. But with "NO-DIET" REGIMEN TABLETS to help you,

TABLETS, there's no calorie counting, no super will power, no prescribed eating at all! You eat what the family eats, when they eat; you just don't want to overeat any more! And your weight comes tumbling down!

"I lost 28 lbs. in 28 days † TAKING REGIMEN TABLETS WITHOUT 'DIETING'

... and never felt better in my life!"



"You've probably seen me on TV many times. I've been a fat man for years. I tried everything I knew to reduce—diets, laxatives, candies, pills, exercises, steam baths—nothing worked.

"Then I discovered REGIMEN TABLETS. In just 3 days I lost 9 lbs. . . . the first week 12 lbs. . . . the second week 20 lbs. . . . and 28 lbs. in just 28 days! And I never felt better in all my life! I never dieted, never felt hungry, never counted calories, never used super

will power! I ate the same foods as always; I just couldn't eat as much! Yet I felt full all the time—better and livelier on a fraction of the calories I used to consume! And the fat just melted away!"

A doctor's notarized report confirms Mr. Morris' weight loss.



†GUARANTEED

REGIMEN TABLETS are a totally new kind of Reducing Drug For Fat People — absolutely unlike anything you've ever used before. Because of your personal metabolism, you may not lose as much weight as Lester Morris, but we guarantee you this: You MUST be delighted with your weight loss... as much as 6 pounds in 3 days, as much as 10 pounds the first week...or return unused contents for your full money back!

Regimen-Tablets

10-day supply, only \$300 20-day supply, only \$500 (You save \$1.00)

Available At All Drug Stores
If your druggist is sold out,
he can supply you in 24 hours.

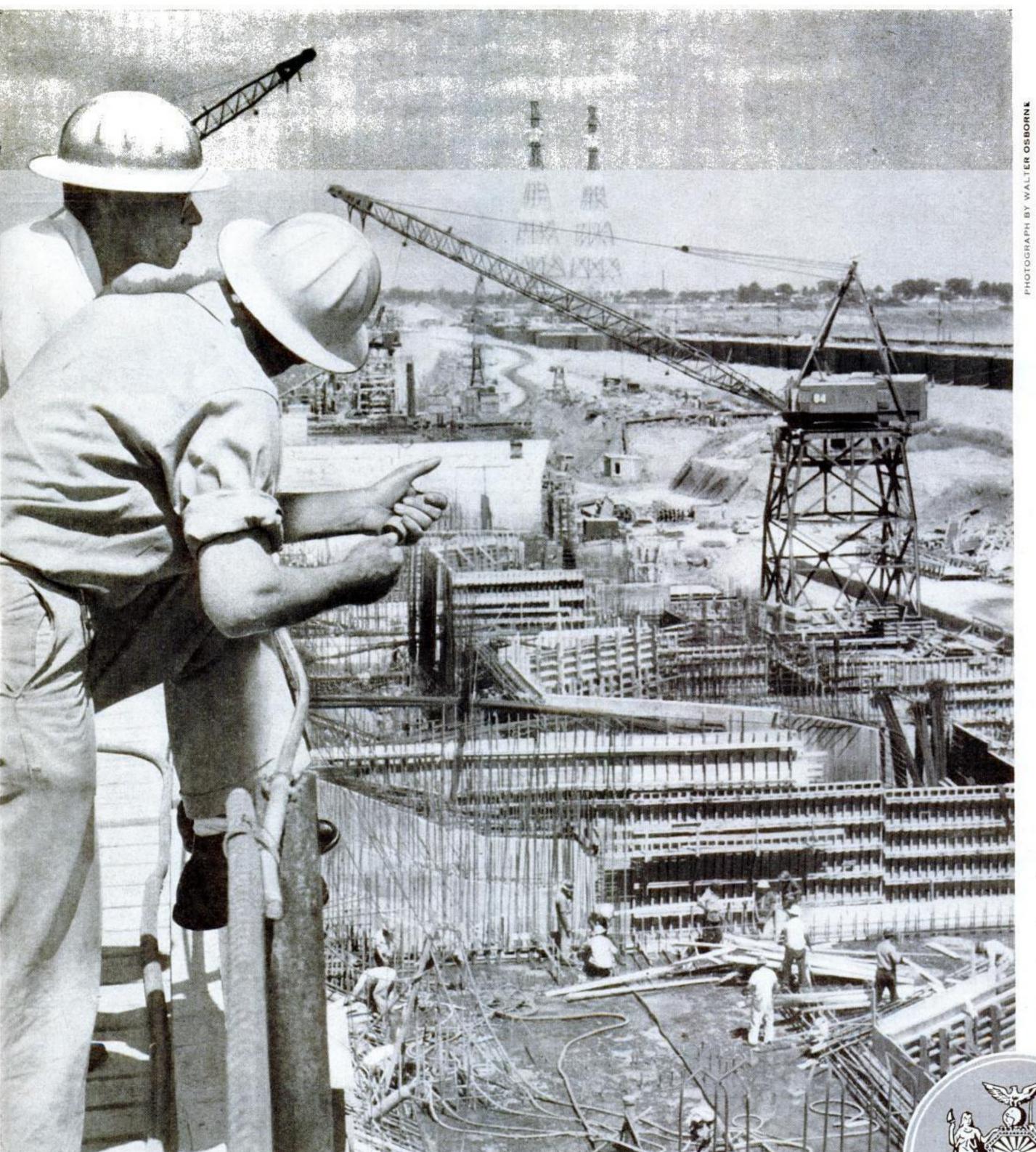


2 Doctors' Tests Prove No-Diet Reducing

Two leading medical specialists put a group of people on a restricted 1000 calorie a day diet, while another group was allowed to eat without food restrictions. Both groups took REGIMEN TABLETS daily. These were the amazing results:

In just 6 weeks, the No-Diet group had actually lost MORE weight than the 1000 calorie a day group!

This is documented clinical evidence that with REGIMEN TABLETS you can eat the kinds of food you like and still lose weight this fastest-acting way! Get REGIMEN TABLETS for No-Diet Reducing.



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New York is the nation's leading vacationland too. But whatever your interest—a plant site, a vacation, a wonderful place to live—the State Department of Commerce stands ready to help. Write Commissioner Edward T. Dickinson, Room 115, 112 State Street, Albany 7, New York.

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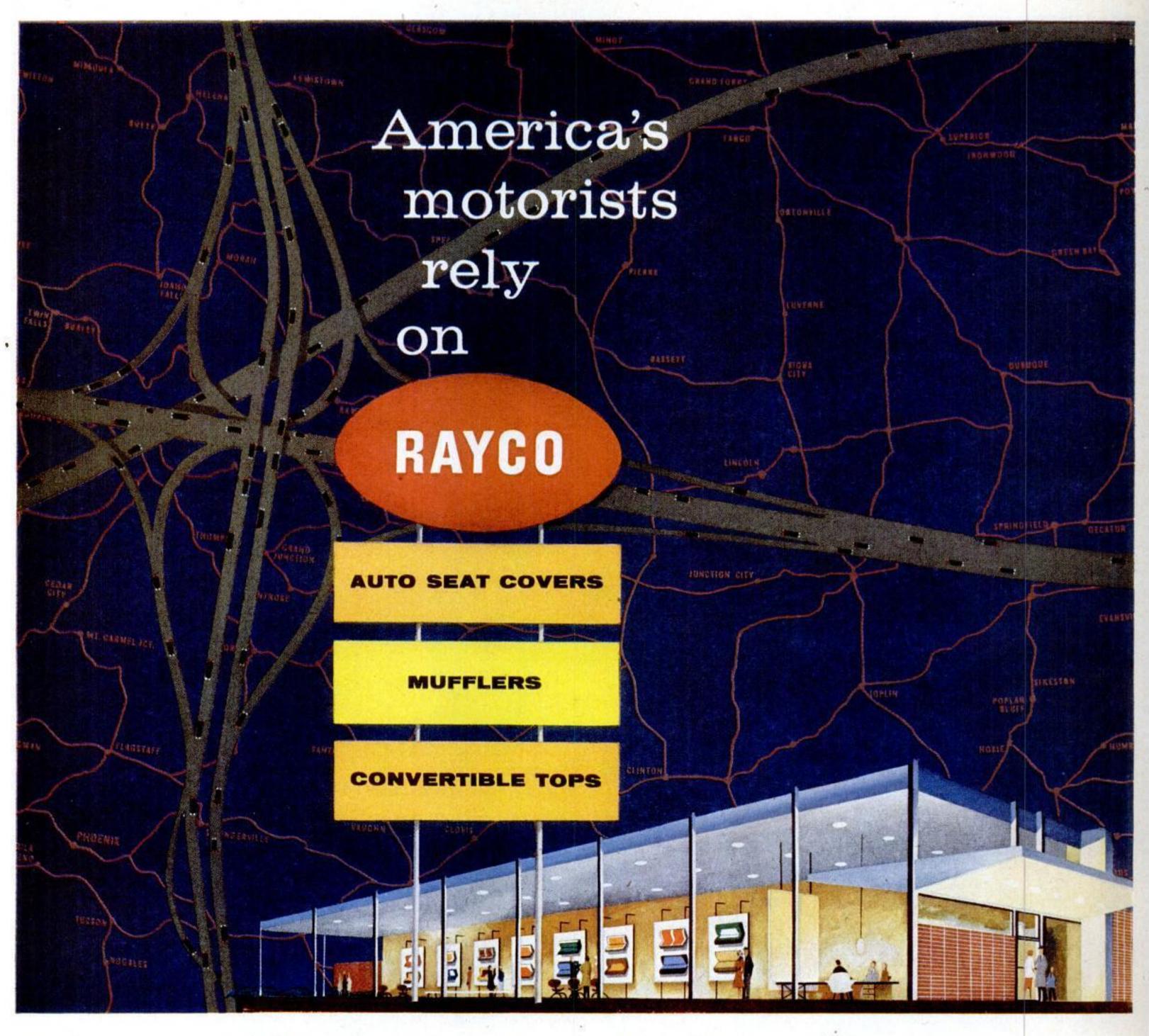


PLAY IT SAFE! These people are so enthusiastic about their new Fiberglas boat they've forgotten good boating practice. Never stand up while under way. Never buzz any float, dock or mooring.

FUN FROM THE WORD GO ... WITH A FIBERGLAS* REINFORCED BOAT

Stop wasting good boating weather on scraping, sanding and caulking! Be first in the water with a Fiberglas-reinforced molded boat. The seamless, leakproof hull is light in weight yet strong, rigid, and highly resistant to damage. Wooden boats, too, are being covered with resin and Fiberglas fabric. Do it yourself—or ask your local boat yard! Owens-Corning Fiberglas Corporation, Dept. 10E-5, 598 Madison Avenue, New York 22, New York.

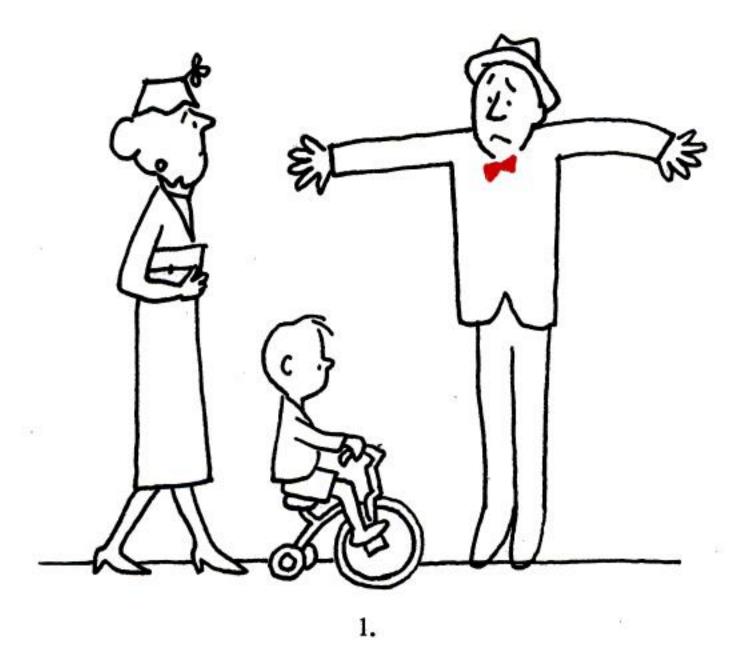




Wherever you drive in America

—there's a Rayco store to serve you and like millions of other motorists you'll discover a kind of service that only Rayco's unique national distribution can provide. Quality in automobile seat covers, convertible tops and mufflers that is available only through the individual Rayco specialist in your area.* Low prices that would be impossible without Rayco's vast chain-buying power. And dependability that you expect from the leading company in its field. Next time, stop at the beautiful Rayco store nearest you and see why—from coast to coast—America's motorists rely on Rayco.



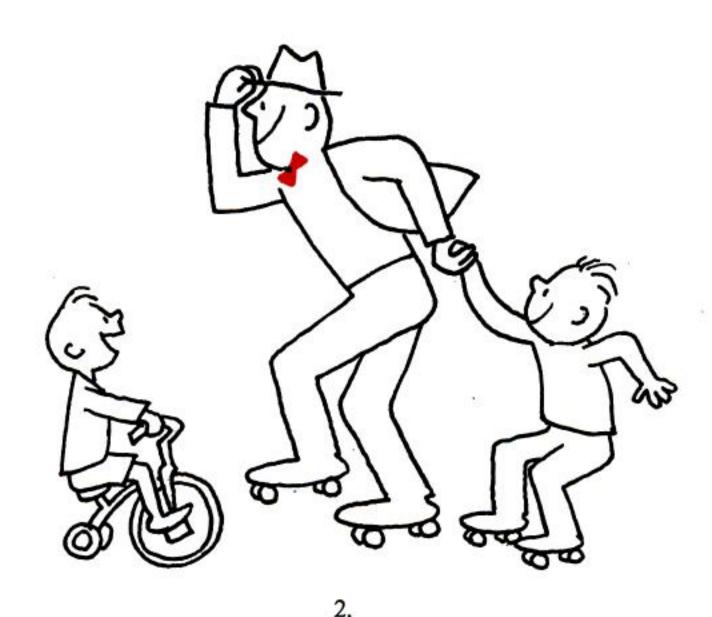


Bill Walker smiled infrequently, and wore a nervous frown

As every day he moaned his way from home to work in town.

Afraid of his own shadow, he would slink along the street,

And faced with any danger he would beat a quick retreat.



Till one day right on Broadway, Billy kicked his heels in glee.

"I'm traveling Travelers way," he cried, "I'm happy as can be.

I've discarded all my traumas; I have gone and got insured

From A to Z by Travelers. Now our future's all secured."

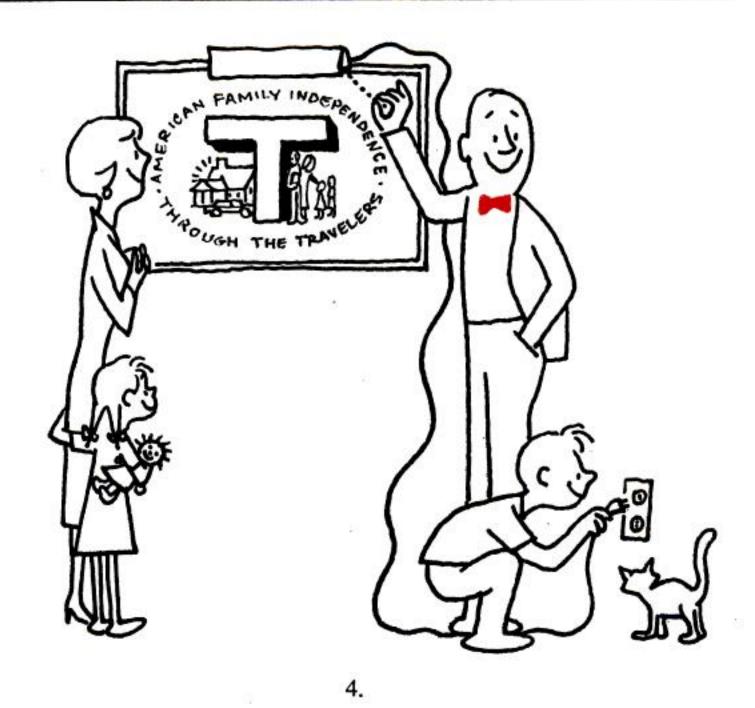


"My Travelers man has built a plan to shield our way of life,

To keep fate's bumps from raising lumps on daughter, son and wife.

My balanced Travelers program covers life, abode, sedan;

I pay the works by monthly check with Travelers Budget Plan."



The Walkers count their blessings and enjoy them to the hilt.

American Family Independence—that's the life they've built.

If such a blithe and happy state sounds like your kind of plan,

Your Travelers representative is certainly your man!

You can protect your whole good way of life through

THE TRAVELERS Insurance Companies HARTFORD 15, CONNECTICUT

All forms of personal and business insurance including Life • Accident • Group • Fire • Marine • Automobile • Casualty • Bonds



Season's Sign in Sweden



When the year warms up in Sweden, young ladies break out in swim briefs on the rocky shores. The beauties shown above all have parts in a movie called *Kostervalsen* about a boarding school for girls. To play the student body, the producer hired some of Sweden's handsomest dancers and models. The girls were able to do a presentable job of acting only by

dint of hard work and coaching. But when it came to posing for publicity pictures they proved absolutely brilliant doing just what came naturally. Their names (from left): Gunilla Asp, Lisbet Redner, Sangrid Nerf, Maire Ahlstedt, Berit Kullander, Marianne Ljunggren, Jessie Flaws (who shows none), Ann Kalén, Bernice Hildegard, Marita Holm, Birgitte Ander.



Strong man with a weakness for beauty.



Utterly feminine with a flair for fashion.



hosiery

The fashion that turns a leg into a legend!

MOJUD®

division of Chester H. Roth Co., Inc., Licensed Manufacturer

MOJUD'S "FAMOUS PAIRS" GIVEAWAY WINNERS WILL BE ANNOUNCED JUNE 1ST!

GRAND PRIZE . . . A EUROPEAN VACATION FOR TWO, ALL EXPENSES PAID! FLY VIA
SABENA BELGIAN WORLD AIRLINES TO THE BRUSSELS WORLD'S FAIR, THEN ON TO THE
"HEART OF PARIS" BY GIANT S-58 HELICOPTER!

LETTERS TO THE EDITORS

EDUCATOR'S PLAN

Sirs:

In this fine set of articles Dr. Conant's proposals come as a sound, practical and refreshingly challenging suggestion ("Tryouts for Good Ideas," LIFE, April 14).

DALE D. DRUM

Long Beach State College Long Beach, Calif.

Sirs:

I would like to ask Dr. Conant two questions about his plan concerning the "average" student:

What device can measure and classify him?

How can the achievements of the "average" student in high school be

predicted?

This plan of Dr. Conant's certainly is a frightening thing. The Brave New World is on its way.

LOUISE SANDLER

Huntingdon Valley, Pa.

• Tests, previous grades and the observations of teachers and guidance counselors locate the "average" student. If he develops exceptionally while in high school, he can switch courses.—ED.

THE HARD SELL

Sirs:

"The Hard Sell vs. Hard Times" (LIFE, April 14) has all the paganism and color of an Indian corn dance.

It illustrates the American businessman acting out one of his most cherished beliefs: if you believe long enough that a thing is not true, it will go away.

C. W. HASTINGS

Chicago, Ill.

Sirs:

On page 19 there is the sign: "Here Lies Mr. Gloom Killed by The Boom." It should have read: "Here Lies Mr. Boom Killed by the Eisenhower Administration."

W. McEwen

Lansing, Mich.

Sirs:

Why can't manufacturers just simply go back to the old system of giving one dollar's worth for one dollar? Even the present-day suckers would prefer that to the current fad of paying two dollars for one dollar's worth of merchandise with 10¢ worth of

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extra junk thrown in (or the invariable pony ride).

Los Angeles, Calif.

THE WORLD'S WEEK

Sirs:

After seeing Life's picture of the rain-caused landslide at Santa Monica, your readers might like to see a less tragic picture of the California floods (A Look at The World's Week, Life, April 14). I took it while flying over Merced, Calif. Just north of the city were two undaunted sign painters on a billboard. They arrived and left by rowboat.

JOHN HOWELL

MARY DUKE

Merced, Calif.



FLOOD-AREA SIGN PAINTERS

A BRUTAL TALE

Sirs:

I object to your article on the zipgun armies at war ("A Teen-Age Gang Leader's Brutal Tale," Life, April 14).

Since publicity-hungry delinquents live on this kind of tripe, it only inflames their egos and fattens their abnormal scrapbooks.

OSCAR CANSTEIN

Woodside, N.Y.

₱ But "Frenchie" reformed (Life, April 28).—ED.

Sirs:

You mention John Marshall Junior High School. You make reference to the recent suicide of the principal who succeeded me and then you cast a slur upon me, his predecessor, stating that I did not commit suicide but just left. After 10 years of service in John Marshall Junior High School, I was retired by the Teachers' Retirement System.

SAMUEL KATZ

New York, N.Y.

Sirs:

You spun a moving yarn about the Brooklyn street-club warring. But we do wish that in your spinning you'd have emphasized more the 10 years which have elapsed between your tale and now.

The area around our center is not the easiest environment in which to survive but there still are many wellthought-of families all around who will tell you with much justification that courage, fortitude and a wholesome sense of the reality of life are to be found here in great abundance.

> ALFRED T. PARKE Director

Wynn Center Brooklyn, N.Y.

EDITORIALS

Sirs:

We appreciate your fine editorial, "Congress, Spare Our Capitol" (LIFE,

Fashion's new excitement for your fingertips...



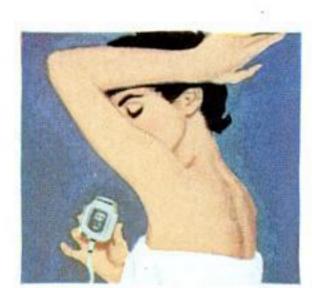
Once, nail enamels were all red. Then Revlon gave birth to the blues and the hues... and topped it off with platinum. Now the news is gold-melted for your fingertips in three precious shades of frosted gold. And as if that weren't enough-gold for gold's sake-it wears like only gold can! So try Gold Gold or Pink Gold or Rose Gold. But hurry. Gold has a habit of becoming scarce!

Revion's So try Gold Gold or Pink Gold or Rose Gold. But hurry. Gold has a habit of the Gold of Gold of Mail Enamel GOLD FROSTED' Nail Enamel THE WORLD... MADE FROM 24 CARAT GOLD!

Costume by Ceil Chapman



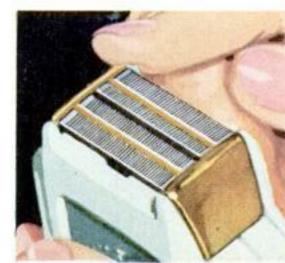
The Remington Princess



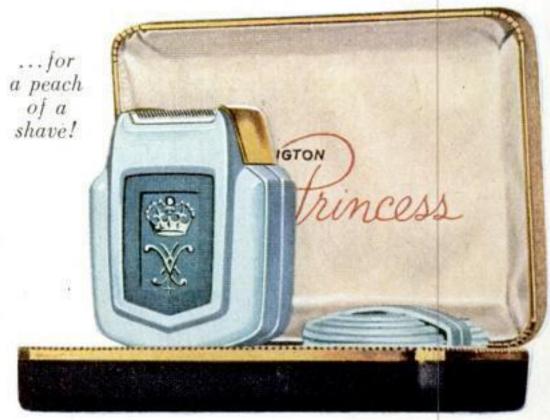
EXCLUSIVE! Protective Princess Guard Combs really care for your soft, tender skin. Only with these can a shaver smooth off hair so clean — yet so free of irritation you can apply deodorant immediately!



EXTRAORDINARY speed—safety, too! Princess shaves twice as fast because it shaves both ways—back and forth. No "wrong side", no rough side. Either side shaves hair out of sight without nick or scrape!



EXCITING! Actually 4 times as much shaving contact—shaving action—with every stroke of the Princess! It's truly the world's fastest way to make hair vanish—and make legs Princess-smooth,



A Product of Remington Rand Electric Shaver, Division of Sperry Rand Corporation, Bridgeport 2, Conn.

LETTERS TO THE EDITORS CONTINUED

April 14). If anything, that editorial should jolt some sense into people and put a stop to all this foolishness.

EDMUND R. PURVES Executive Director

The American Institute of Architects Washington, D.C.

GROMYKO'S SHELL GAME

Sirs:

The key point made in your editorial ("Gromyko's Shell Game," LIFE, April 14) is certainly correct. We do not seem to wage "political warfare" successfully, but insofar as my announcements about Russian weapon tests are concerned, they have been designed solely to report the events as promptly as they were detected. The AEC, being a technical organization, limits its reporting to the facts without attempting to char-

acterize them. I am sure you realize that what the Soviets are trying to do is to bring about a suspension of testing without inspection, and there is tremendous pressure from many quarters to have the United States accede to that or to accept a form of inspection which would be inadequate to insure detection of evasion. It is about the equivalent of going into the boxing ring with an opponent who will agree not to have any horseshoes in his glove but who will not let the referee look.

The detection of nuclear explosions, which is possible if no attempt at concealment is made, and under favorable circumstances perhaps even if an attempt is made to hide them, is a highly technical procedure. It consists of both an analysis and an evaluation of many pieces of information which would be difficult to present to the public in a form that would be convincing beyond a reasonable doubt. A country could deny having violated the agreement and accuse other countries of false charge, or a country could be accused of having violated an agreement to cease testing and it would be practically impossible for a convincing demonstration to be made against such an accusation. If this sounds at all unreasonable to you, I would remind you that we were accused during the Korean war of having resorted to germ warfare and this same charge, which was a complete invention by the Communists, is still believed by large parts of the world.

> LEWIS L. STRAUSS Chairman

Atomic Energy Commission Washington, D.C.

DREAM ROLES

Sirs:

Bravo Life! Bravo Eliot Elisofon for "Eleven Fine Actors Get Their Dream Roles" (LIFE, April 14) which was truly magnificent.

DOROTHY A. FERNANDEZ
East Rutherford, N.J.

Sirs:

I am not questioning Miss Verdon's ability to entertain, but I am afraid she is confused about the Renaissance popular theater, the *commedia dell'arte*.

Miss Verdon is confusing the rustic fool, Arlecchino, of the Italian theater, who became Harlequin when he went to France and England in the 16th and 17th centuries with Pierrot, a watereddown 18th Century version of a more virile zanni of a century before called Pedrolino.

Harlequin would never have found the time to become transformed by suffering from the love of Columbine. He was usually too busy performing tricks.

WILLIAM D. HAMMACK Keuka Park, N.Y.

• Miss Verdon's costume does look more like Pierrot than Harlequin. "It's all my fault." she says. But Designers William and Jean Eckart say they were trying to create a composite costume from the commedia.—ED.



HARLEQUIN AND PIERROT

AN EDUCATOR'S OPEN LETTER TO U.S. EDUCATORS

The following open letter by Dr. Paul Woodring was inspired in part by Life's recent series, "Crisis in Education." Dr. Woodring, a former teachers college professor, is one of the country's most articulate educators, author of a recent analysis of the state of U.S. education, A Fourth of a Nation (Life, Sept. 2), and currently consultant to the Ford Foundation's Fund for the Advancement of Education—ED.

Sirs:

The leadership of American education is rapidly passing out of the hands of professional educators. The crescendo of criticism that has assailed the schools for the past 10 years has, since the launching of Sputnik, become a deafening roar. It is obvious that our schools from kindergarten through college must make dramatic changes and equally obvious that the present tremendous public interest in education offers an unparalleled opportunity for us to make some long-overdue improvements.

But instead of leading the way, instead of planning new programs to meet the exciting demands of the last half of the 20th Century, most of us are fighting a futile delaying action. We are resisting the attacks, fending off the flying brickbats, offering evidence that our schools are just as good as they were in 1900, denying the charges, and advising our cohorts to cancel subscriptions to any magazine that dares to challenge current educational practices.

This is not leadership—leadership is not possible from a defensive position. If the control of the schools is not to pass entirely out of our hands we must again take the offensive. We must ourselves identify the weakness and shortcomings of our schools and offer bold and imaginative solutions.

It is futile to waste our time pointing out that much of the criticism misses its proper target and that some of the critics are confused by the enormous complexity of American education. The important fact is that, while educational spokesmen resist change and feebly defend the status quo, the critics offer strong and positive suggestions for the improvement of our schools. They are urging that we raise our sights, that we establish priorities based on a clear sense of purpose, that we resist, instead of going along with, the anti-intellectual trends of our culture, that we find ways of challenging the greatest potential efforts of bright and gifted students without neglecting the less able, and that we find better ways of educating teachers and of making their job more attractive to men and women of high intelligence.

There is growing evidence that this is what a great many of the American people want. There is evidence, too, that many educators want the same things. A recent Gallup Poll found that 79% of high school principals think the schools demand too little work of their students, 63% are convinced that students do not read enough books, and 61% think athletics is overemphasized. But the voices that speak for professional educators have failed to make this plain, have failed to offer solutions, have failed to lead the way or even to point out the weaknesses.

The critics themselves—those outside the schools—cannot rebuild the American educational system. All they can do is illuminate the errors. The rebuilding must be done by professional educators working with the support of lay groups.

The American people are ready to move. If we will show the needed courage, enthusiasm, perception and intellectual vigor, we can now build a system of education far superior to any that our nation or any nation has ever had. But first we must get out of this ridiculous defensive position and start acting like leaders again.

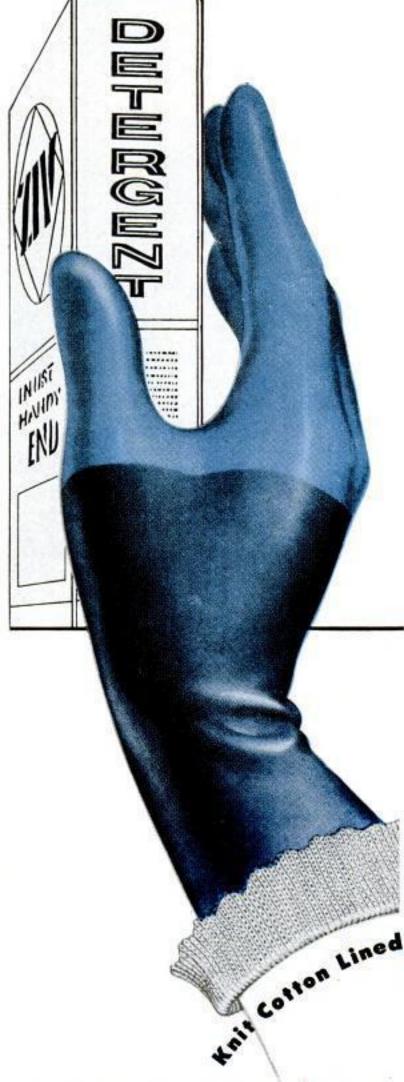
PAUL WOODRING

New York, N.Y.

Do your Hands tell your age?

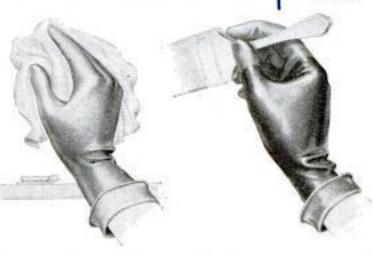
Bluettes

Keep them Young!



Absorbent cotton lining insulates from heat . . . Machine Washable.

\$1.49 pair



Cotton-Suede lined SUPER Ebonettes® in 3 modern pastels. 98c pair

Soil-and-stain-proof Ebonettes® Black outside, Satinized pastel inside. 79c pair

All of Du Pont Neoprene Rubber to withstand greases, polishes, detergents . . . safe non-slip finger design.

The PIONEER Rubber Company
Willard, Ohio

Prices Higher in Canada



CAN YOUR WOMAN'S INTUITION SAVE YOU 3 DAYS' WORK?

Yes. Making a dress takes time, and your Woman's Intuition helps you pick the fabric wisely. When a tag says "Sanforized", don't you hear a click in your head where your Sense of Value resides? You know the dress you make won't shrink out of fit, so insist on the satisfaction of the "Sanforized" trademark. On all cottons—yard goods and ready-mades.



"Sanforized" fabric must pass this rugged shrinkage test—boiled, washed for an hour ... checked by the "Sanforized" inspector.

'IT'S WHAT WE VOLUNTEERED FOR'



PFC. MICHAEL ROBLES, NEW YORK CITY



PFC. ALFONZO MARTINEZ, SANTA FE, N. MEX.

The price of U.S. military preparedness suddenly seemed tragically high last week. Five young airborne soldiers, shown here in pictures taken for their graduation to jump status, were killed in a freak accident which saddened the nation and demonstrated once more that combat troops must sometimes take the same costly risks in peacetime that they face in war. All five men were proud members of one of the U.S. Army's toughest and most elite units, the 101st Airborne Division, which was in Normandy and Bastogne. All had volunteered for the hazardous duty-and for the extra pay which goes with it. All were hardened, experienced paratroopers.

But as they and 1,300 other men took part in their unit's first mass jump, unpredicted gusts of wind blew across the drop zone in which they were landing. The men's chutes, instead of collapsing quickly on hitting the ground, were blown across the fields, dragging the men behind. Martinez was choked to death; Payne died from head injuries; Ruffin, Robles and Morley were strangled by their tangled suspension lines. Another 155 men were rushed to the field hospital with cuts, bruises and broken bones.

"Sure it was sad," said a sergeant, "but it's what we volunteered for." Some observers at the scene blamed the accident on a faulty measurement of the wind and a U.S. congressman demanded a House investigation. The 101st's commander, Major General William Westmoreland, himself had jumped with the men and been dragged 200 yards by the wind. "This was not a stunt," the general explained, "it was part of our business."



PFC. DANNIE RUFFIN, CLEVELAND, OHIO



PVT. ELLIOTT MORLEY, MIAMI, FLA.



SP3/C CARL PAYNE, CLARKSVILLE, TENN.







RESCUING OFFICER. MAJOR LOU BREAULT (WHITE BAND AROUND CAP), TACKLES PARATROOPER TO SLOW HIM DOWN WHILE ANOTHER SOLDIER RUNS TO HELP



righted materia



TRAPPED IN PARACHUTE, Pfc. David Decker gets help from officer who was watching from ground. In strong wind chutes were easily tangled, hard to doff.

Paratroopers continued



A HELICOPTER FITTED WITH LITTER CARRIERS TAKES ON AN INJURED SOLDIER

SCRATCHES, STOICS AND STAMINA

The men of the 101st reacted to their training-ground tragedy with battlefield stoicism. Badly bruised men went to the aid of their more seriously injured comrades. Division Commander Westmoreland, 44, mourned the mishap as much as anyone. But he also recognized it for what it was: an everyday act of soldiering. Speaking of his own landing, the general said, "I got on my back and rode it out. I felt as if I'd been playing a rough game of football against Notre Dame." He visited the injured men in his division hospital, then went on making plans for further necessary training exercises. Although he postponed one mass parachute drop because of bad weather, at the end of the week Westmoreland and his men were ready to do it again. This time the general was determined to test the wind personally by jumping 15 minutes ahead of the others.

VISITING HIS WOUNDED MEN AFTER DROP, GENERAL WESTMORELAND STOPS BY HOSPITAL COT OF PFC. DAN OGAWA, WHO SUFFERED KNEE AND BACK INJURIES







LITHE AND LAUGHING DANCERS RESPONDING TO RHYTHMIC BEAT OF CALYPSO MUSIC DANCED FOR THE PRINCESS AT THE WEST INDIES FESTIVAL OF ARTS

A NEW WEST INDIES NATION'S ROYAL SEND-OFF

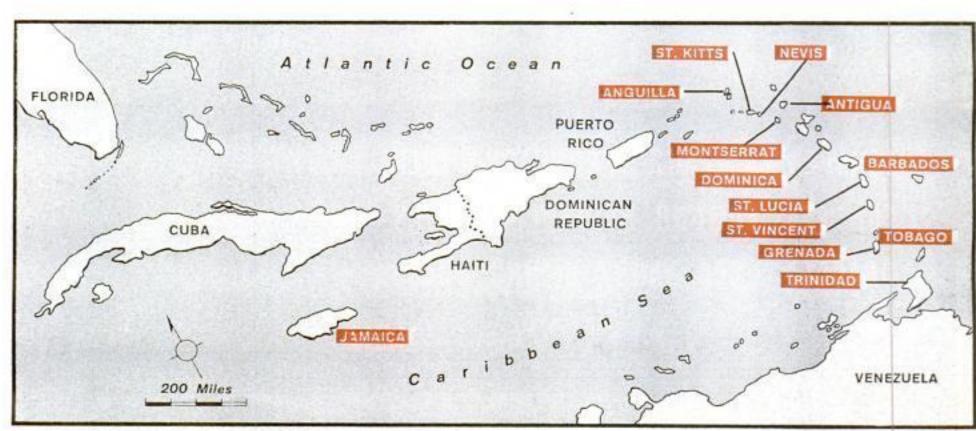
Princess Margaret opens first legislature as former colonies start toward British dominion status



LOW-ANGLE SHOT is sought by small photographer as the princess passes by in her limousine.

The world's newest nation got off to a heady start last week, beginning its official life under the smiling auspices of one of the world's prettiest princesses. Acting as legate for her sister, Queen Elizabeth, Princess Wargaret was in Trinidad to open the first parliament of the West Indies federation.

Proud and colorful Caribbean fanfare surrounded the visiting princess. Island dignitaries wearing the traditional garb of empire attended her. Sinuous calypso dancers swirled through their dances for her entertainment, Photographers—both full size and very small—followed her progress, recording an exciting occasion The new nation these events honored was a group of 13 islands flung across 1,500 miles of Caribbean on the watery southern doorstep of the U.S. Once they were colonies, but two years ago, under British government pressure, they began the process of becoming independent. This spring the islands elected their first parliament and only last month they chose their first prime minister. Now, though technically still under the guidance of the crown in the person of a governor general, Lord Hailes, they were launched upon a path intended to lead them to full dominion status within five years.



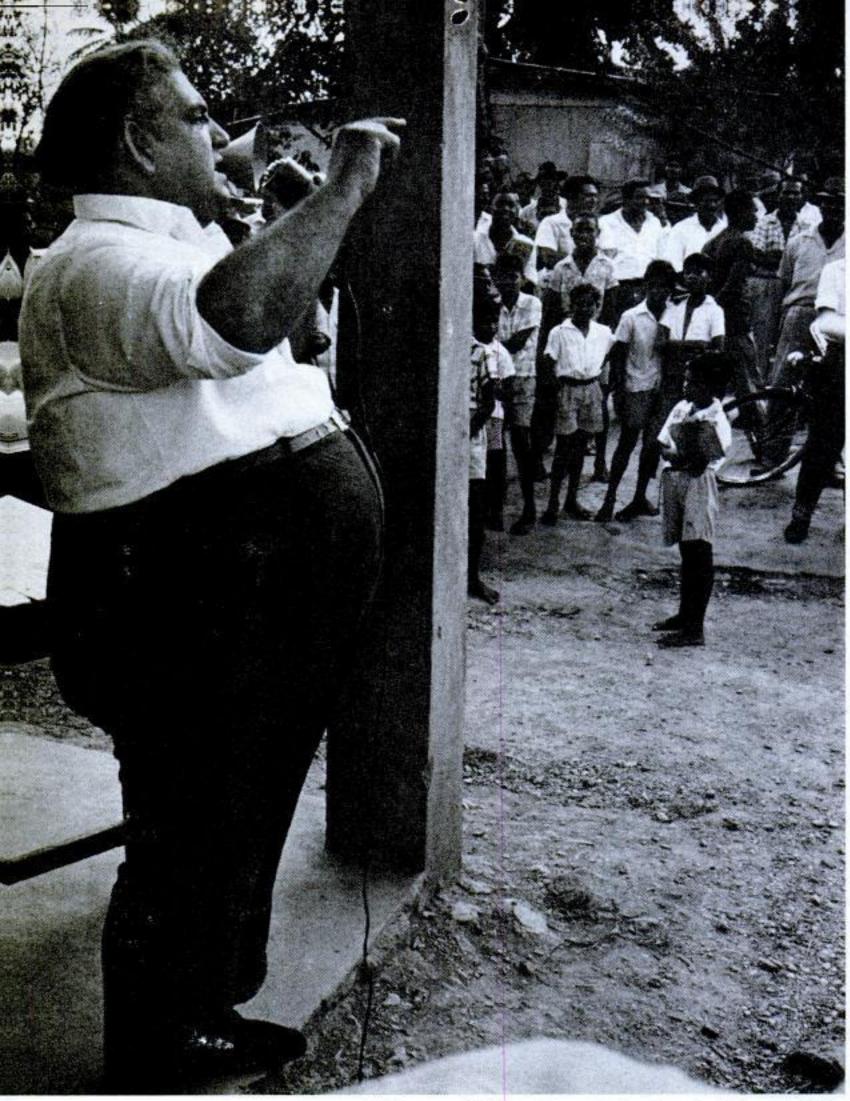
SCATTERED NATION, members tabbed red, spans from Jamaica to Windward chain. Other British

New World possessions (Bermuda, Bahamas, British Honduras, British Guiana) are outside federation.



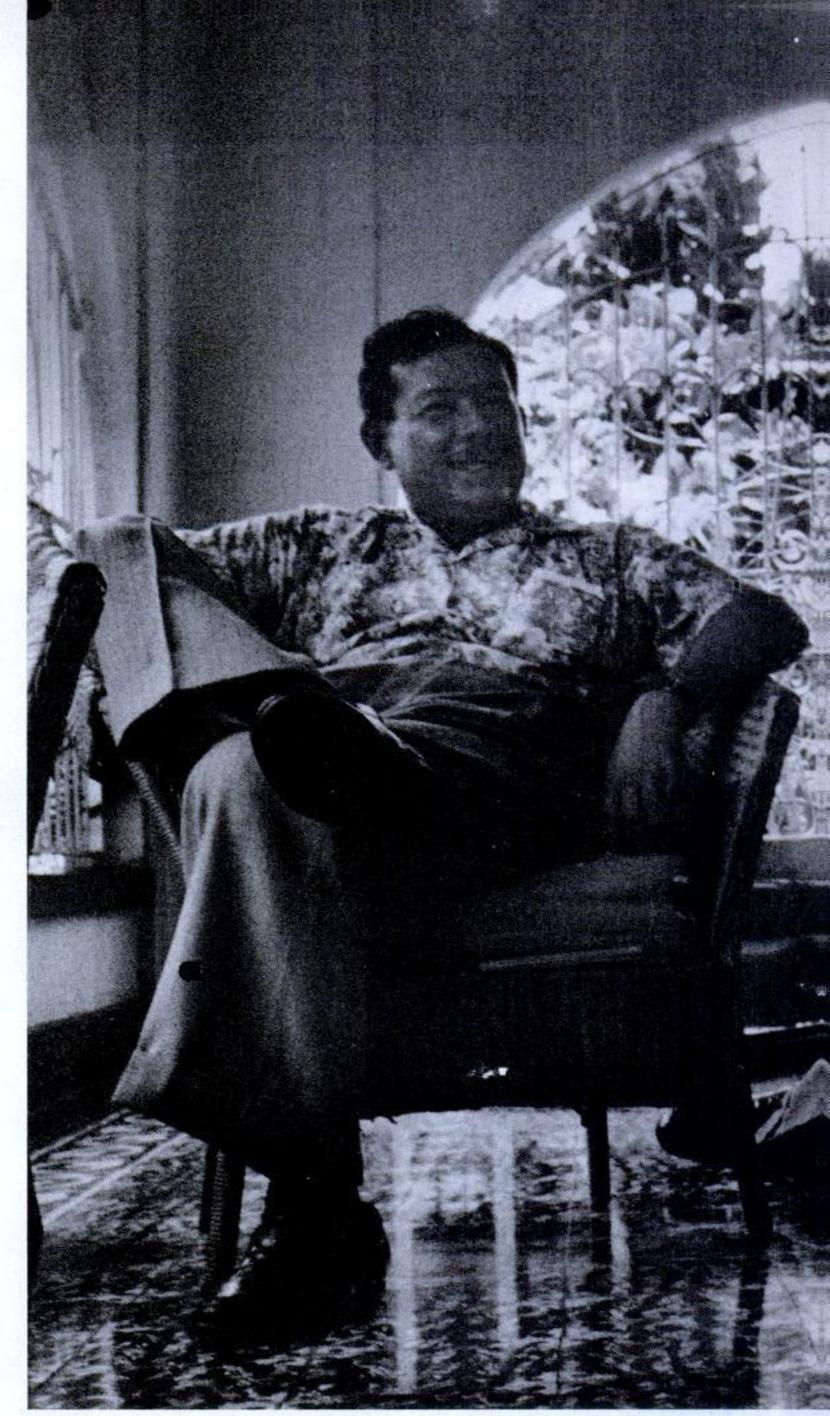
AMID HER HOSTS, all respectfully standing, Princess Margaret enters Legislative Council chamber to inaugurate first federal legislature, the royal duty which

brought her to West Indies. Speaking to new lawmakers, she said. "Your path may not be easy . . . but at least you will know burden you bear is an honorable one."



TRINIDAD COMBINE of 300-pound Albert Gomes (above) and millionaire Bhadase Sagan Maraj (below) engineered conservative victory, taking six of island's 10 seats. In campaigning, Gomes took a pro-U.S. stand. Bhadase, a Hindu here worshiping at Krishna shrine in home, was not candidate but backed Gomes.



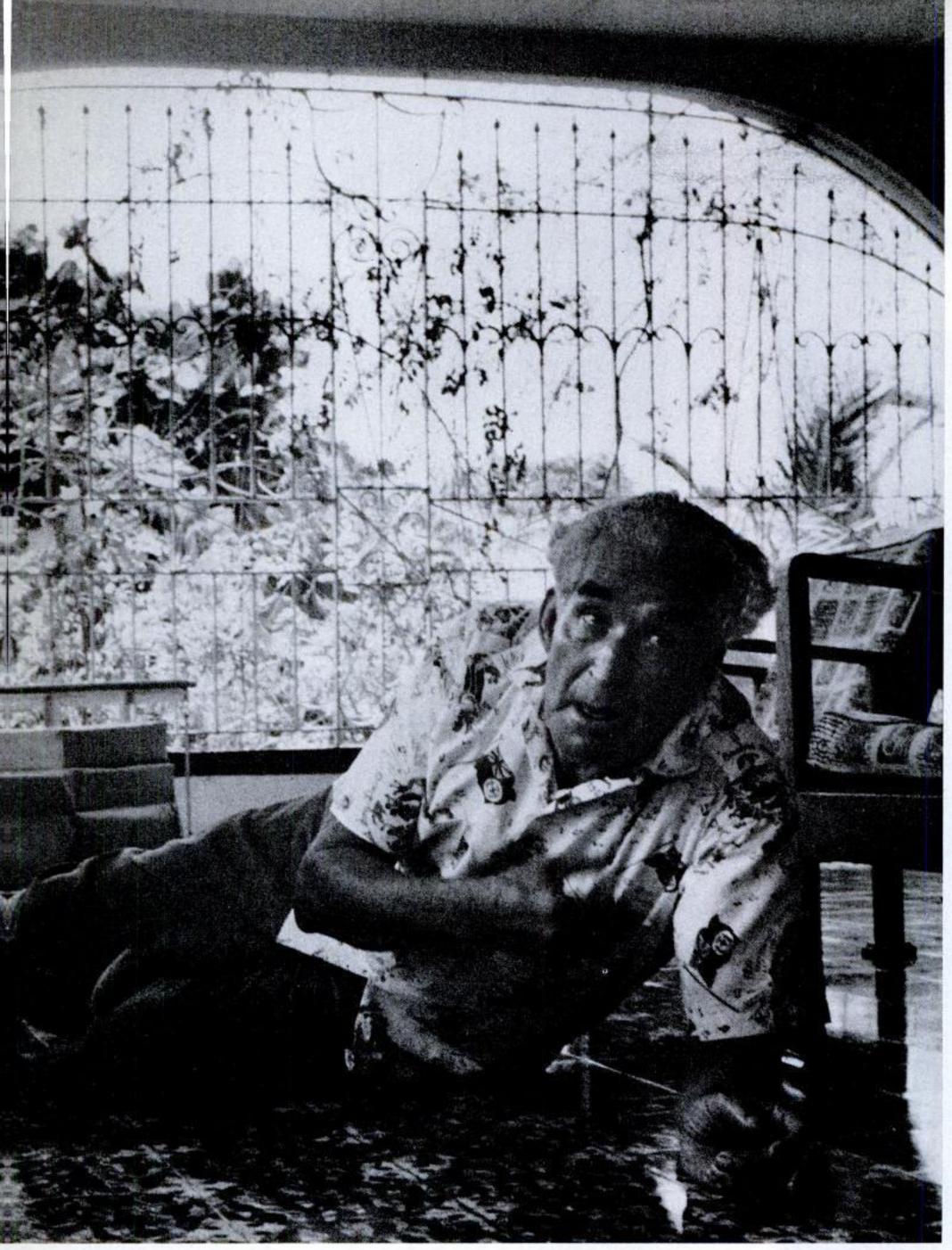


SIR WILLIAM BUSTAMANTE, BOSS OF JAMAICA CONSERVATIVES WHO WON 11

FOR BRAND NEW PRIME MINISTER AND LEADERS, PROBLEMS AHEAD

The new federation's leaders face a galaxy of prickly problems in evolving workable nationhood. These will come particularly to bear on Princess Margaret's host, Prime Minister Sir Grantley Adams, 60-year-old socialist leader of Barbados, Oxford graduate and lawyer who was knighted for services as a British U.N. delegate. The islands have little in common except need to unite. Their three million population is mixed, Negro, East Indian, Chinese and white. Some larger islands are rich. Others are poor and overpopulated. There is even a vexing problem over the nation's biggest neighbor. At Chaguaramas on Trinidad, the U.S. maintains a \$100 million naval base. Some islanders want the U.S. to move out so they can have Chaguaramas for a capital.

During the recent campaign for the federation's first parliamentary election, candidates showed acute awareness of regional interests. Some from Jamaica and Trinidad, worried about the burdens of federation, revealed their fear of heavy taxation or permitting immigration to help their weaker sisters. Conversely, those from such smaller islands as Barbados and St. Lucia were more enthusiastic for union which stands to help them. The voting gave 24 seats to the socialist Federal Labor party, 20 for the conservative Democratic Labor party and one for a splinter group indicating the emergence of a fairly well balanced two-party system.



OF 17 SEATS, SPRAWLS TO SHOW CANDIDATE GEORGE McFARLANE HOW HE FOUGHT IN 1938 LABOR RIOTS



JAMAICA LOSER, Norman Manley, here at Kingston government house, led defeated Federal Labor.



A LOOK AT THE WORLD'S WEEK



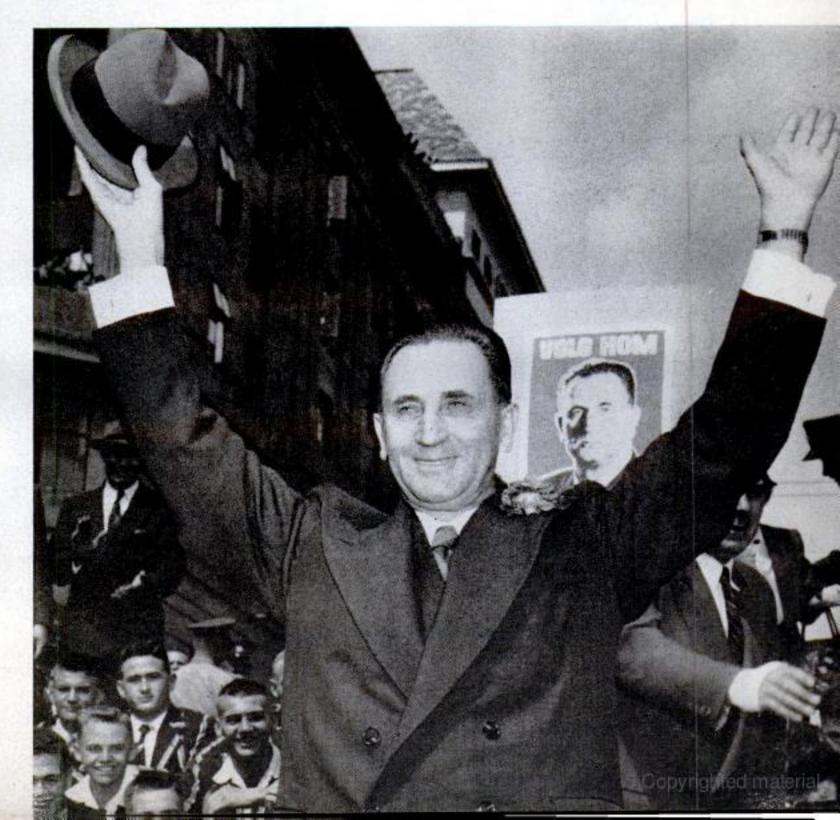
A QUESTIONABLE MISSILE LAUNCHING

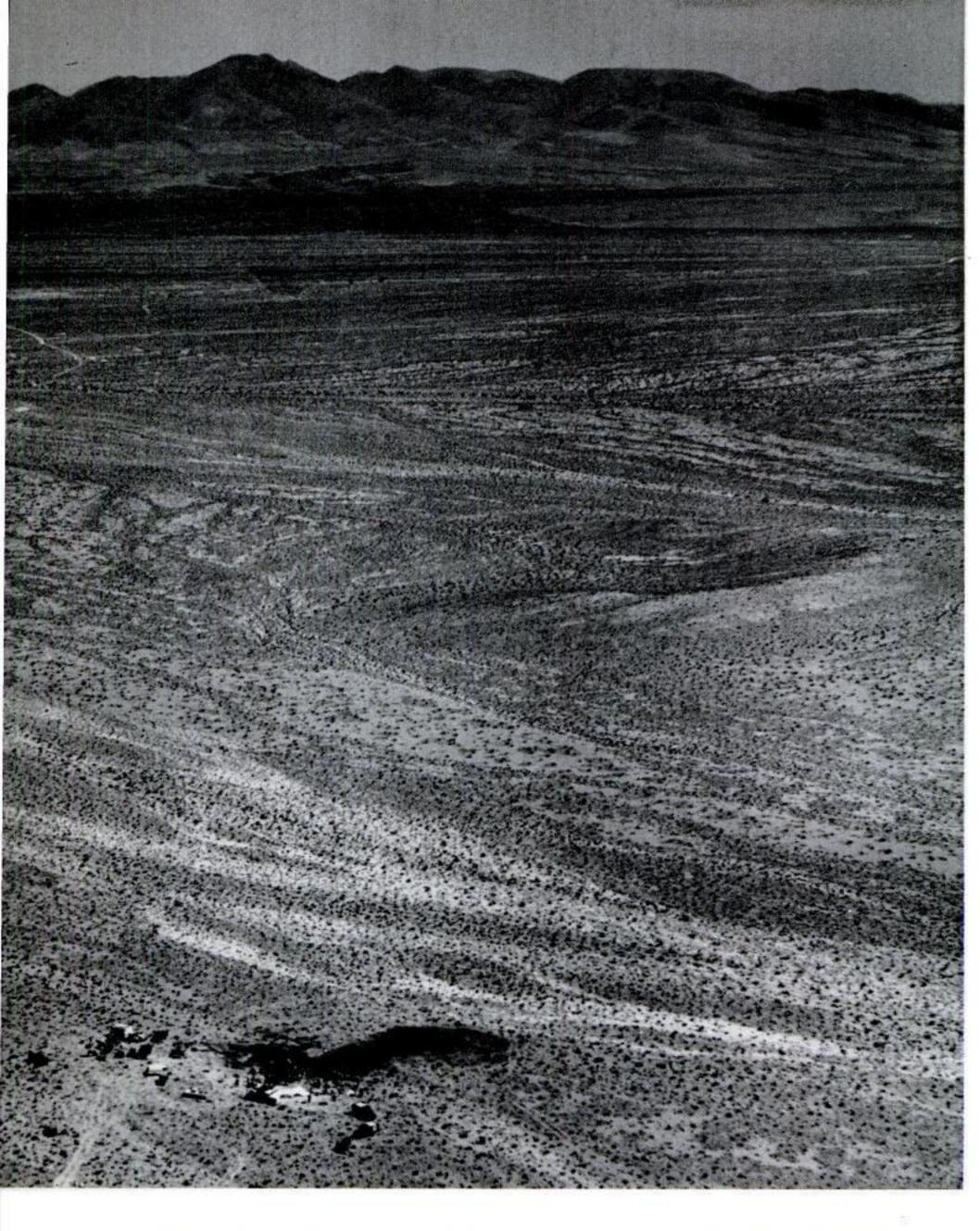
Above Cape Canaveral, Fla. a giant question mark, formed by erratic winds on the contrail, prophetically appeared after the firing of an Air Force hybrid Thor-Vanguard missile (flash of light at top). The missile was fired to test the nose cone of a re-entry vehicle by hurling it 6,300 miles. But tracking devices failed, the missile was lost and the question of how far the nose cone went or where it came down was unanswered.



ANOTHER 'MAD CHANCE' COLLISION

On Greasewood Desert near Las Vegas, Nev. rescue trucks clustered around a smear—wreckage of a United Airlines DC-7—after the southwest's sixth "mad chance" air collision in two years. The liner was flying from Los Angeles to New York when a jet, with student pilot and instructor, sliced down. Forty-seven on the DC-7 were killed, plus both men in the jet. Investigation pointed to inadequate traffic control as the cause.







← SOUTH AFRICAN VICTOR

In Pretoria, Johannes Strijdom smugly acknowledged the cheers of victory rally crowd after a thumping re-election as South Africa's prime minister. His strict white-supremacy Nationalist Party had become the first in the history of his country to win three times in a row.

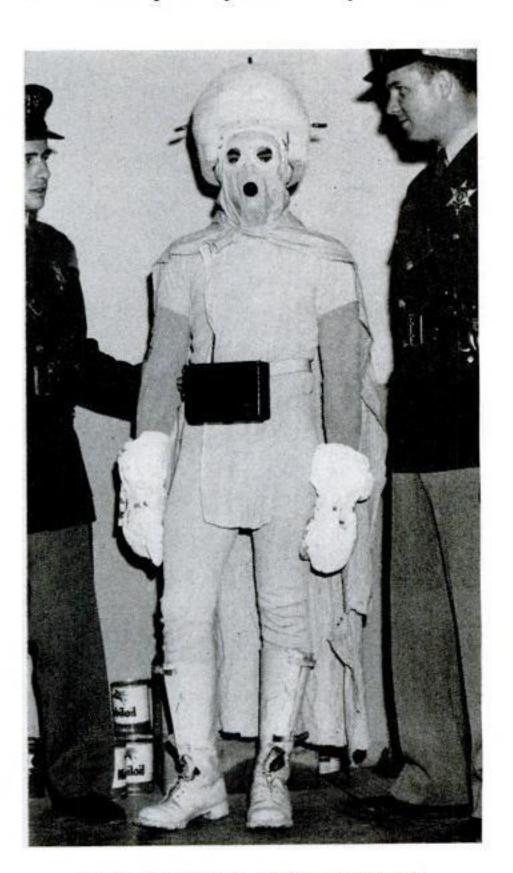
SUMMONS FOR CHERYL

Lana Turner's daughter Cheryl, jailed since she killed Johnny Stompanato, heard in Santa Monica, Calif. court she would live with her grandmother until the final custody decision. Emerging, she got a summons to a \$750,000 suit against her parents by Stompanato's son.



IF YOU'RE PRETTY

In Miami, Sandra Consolo (left) and Jean Bryan proved that girls who are pretty enough will look good even in the baggiest sack. "Make one yourself," said Sandra's father when she asked him for a chemise. She and her friend Jean made up this pair out of potato sacks.

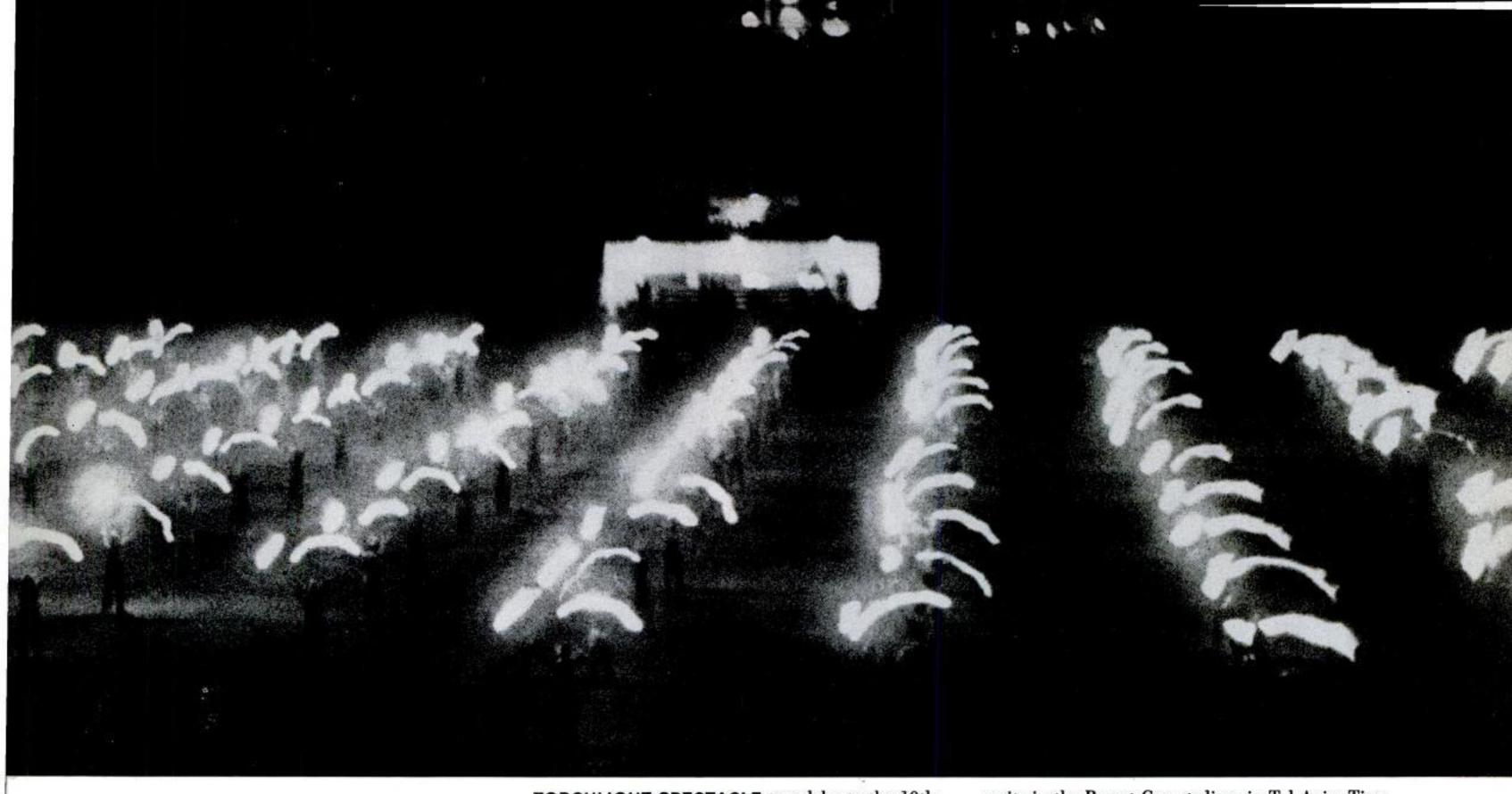


CAPTURED SPACEMAN

Motorists around Bad Axe, Mich. suffered unearthly scares when a figure in space helmet, long cape, skintight uniform and boots loomed before their headlights, then disappeared. Police arrested Jerry Sprague, 22, who confessed to pulling the prank in a suit of underwear.







TORCHLIGHT SPECTACLE to celebrate the 10th birthday of State of Israel is put on by massed army

units in the Ramat Gan stadium in Tel Aviv. Time exposure shows arcs described by waving torches.

EXULTANT BIRTHDAY FOR ISRAEL

Nation celebrates its 10th anniversary with a proud show of power

By shining torchlight and under the burning Mideast sun, crack military units last week celebrated the 10th anniversary of Israel. Celebrating with them were vast crowds exultant at the achievements of the beleaguered nation both in surviving and growing. But amidst jubilation were memories of the dead who had fallen in Israel's war for independence against the Arabs which, despite a truce, still simmers.

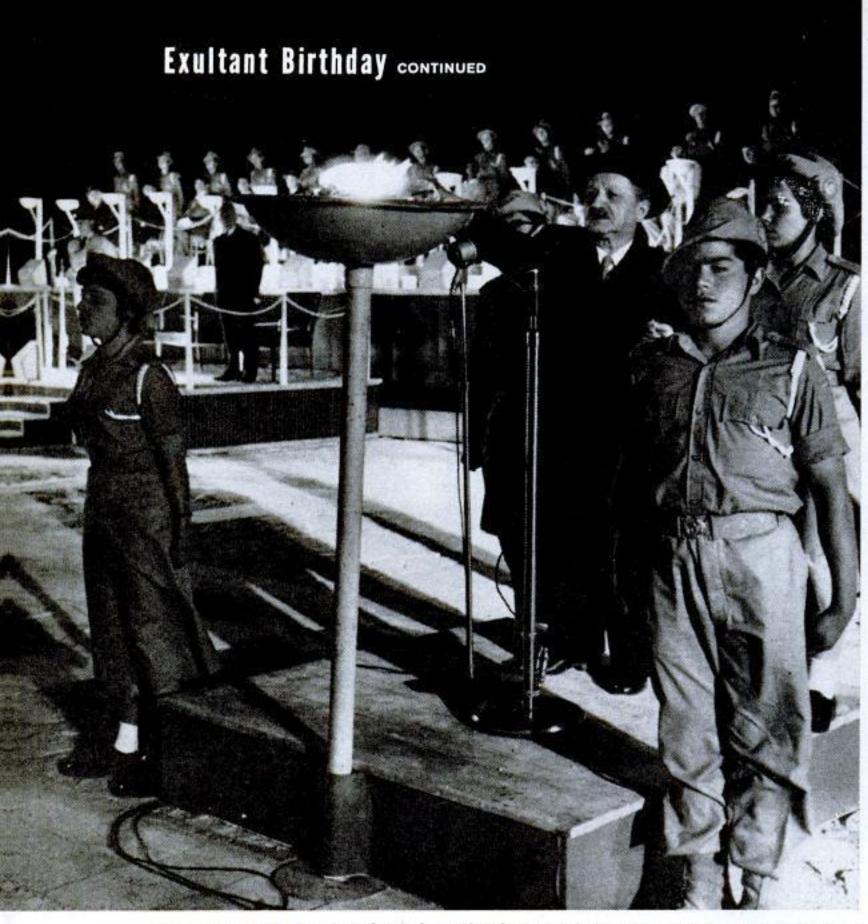
Since 1948, Israel had made impressive progress. Its population had tripled to over two million through immigration from 70 nations. Farm output had grown threefold. Industry had zoomed from almost nothing to an annual output of-more than \$750 million.

But Israel's birthday also found her still dependent on heavy outside aid, mostly from Americans. And the continuing thorniness of Israel's existence showed in the Jerusalem independence parade itself. Jordan said the parade violated the U.N. truce, which forbids both Arabs and Jews from putting on that big a military show in the city. The Israelis admitted it but, full of festive pride, went ahead anyway.

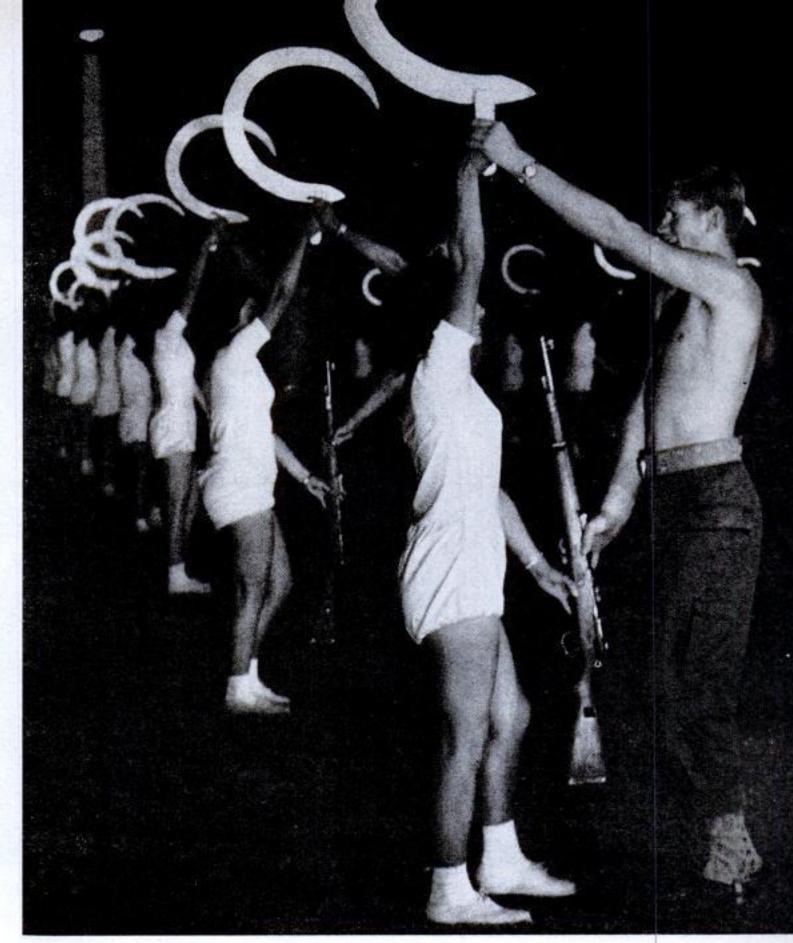


→ ARM-SWINGING ARMY parading in Jerusalem includes a unit of Women's Army carrying burp guns.

GRIEF-STRICKEN WOMEN on Mt. Herzl near Jerusalem weep at graves of soldiers in army cemetery.

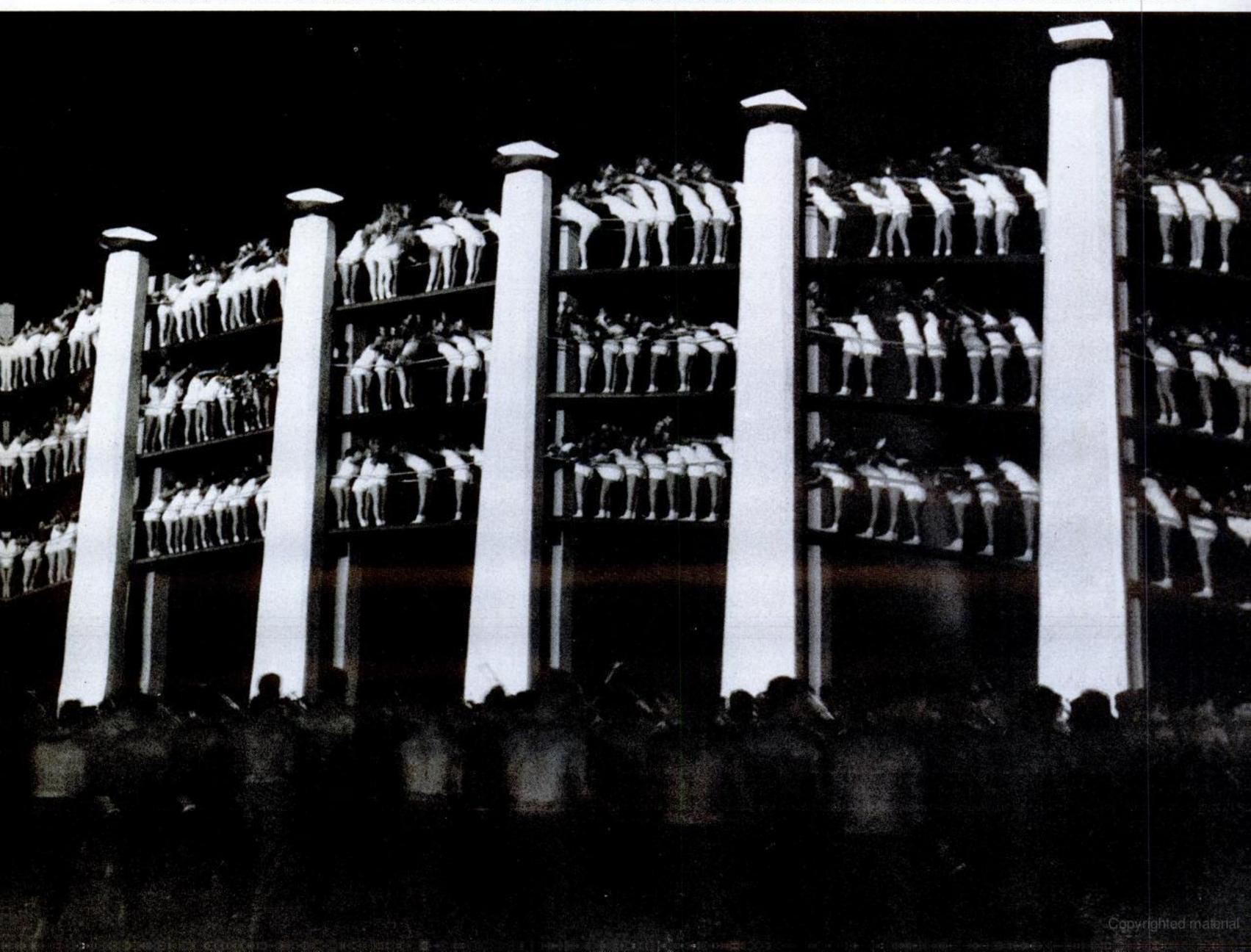


FESTIVE FLAME, signaling the official start of the anniversary ceremonies, is lighted on top of Mt. Herzl by Joseph Sprinzak, speaker of Israeli parliament.



SYMBOLS OF STRUGGLE waged by Israel, sickle for agriculture and gun for defense, are held close together to show the Israelis must both farm and fight.

IN DRAMATIC NIGHTTIME TABLEAU WHITE-CLAD GIRL GYMNASTS PERFORM ON TEL AVIV STADIUM STRUCTURE WHILE RIFLE-CARRYING YOUNG MEN MARCH BELOW





ANOTHER PASSENGER SHOWS WHY AMERICAN SERVES YOU BETTER WHEN YOU FLY





Chiffon...most thrilling of all pie fillings



EASY MAKING, LUSCIOUS TASTING chiffon pie filling is now yours at the turn of a beater.

NO COOKING! All you do is add water and sugar to Jell-O Chiffon Pie Filling. And beat.

YOU CAN'T FAIL! Thousands of tests in the General Foods Kitchens prove you can't make a mistake if you try. We guarantee it.

A TOPPING THAT'S TOPS! Serve that most important man in your life Lemon Chiffon Pie topped with whipped cream and sliced bananas. Delicious on Strawberry Jell-O Chiffon Pie, too. Both flavors at your grocer's—for pennies.

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GUYS AND TAXES

In the economic melodrama of this recession, it's hard to tell the Good Guys from the Bad Guys. That also goes for some of the proposed remedies, especially a tax cut. You can find able and respected authorities both pro and con a tax cut. As for that ultimate authority, the taxpayer, New York Daily News Inquiring Photographer Jimmy Jemail asked the pertinent question: "Why are the taxpayers so numb?"

We here nominate a few Good Guys and Bad for the numb taxpayer's attention. The man who deserves the most respect for his recession performance to date is President Dwight D. Eisenhower. His acts have been firmer and wiser than some of his words. He has pulled all the levers within his administrative control to expand credit and to speed up the rate of government spending on projects whose economic value is established. But he has vetoed phony anti-recession measures (the farm freeze and the pork-barrel bill) that would have been merely inflationary. Above all, by his coolness towards a tax cut, he has resisted the stampede toward the kind of measure Congress seemed most eager to pass. This was a demagogic tax cut, as urged by that magnificent Bad Guy, Harry Truman. By "demagogic" we mean a cut that favors lower income groups where the votes are, without regard to economic logic. Such a tax cut would do far more harm than good.

Vice President Nixon has also been a Good Guy on the recession—good at the main instrument of his office, which is words. His American Newspaper Publishers Association speech last week put a lot of complex economic issues in the right perspective, including taxes. He favors a cut if things get worse. But the kind he favors would "put money in the hands of investors and job-creators as well as consumers."

Such a cut is also proposed in the recent Rockefeller Brothers Fund report on the economy. It would be evenly spread across all levels of income, including corporate income, "without favoring any special interests." A cut of that kind could give a pervasive lift to the whole economy, stimulating lower costs and new jobs. The boomingest country in the Western world, by the way—Austria—has just had its third tax cut in four years.

Nobody knows for sure whether our recession will get worse or not. Since it may, the time has now come for Washington's Good Guys to prepare a sound tax cut plan of their own.

Two reasons make this advisable. There are so many half-baked spending schemes around—nine bills in the Senate alone would cost us \$38 billions in the next five years—that a tax plan is politically needed to divert all this congressional steam into a less dangerous channel, and strengthen the President in his vital task of nonsense-stopping. But second, as the Rockefeller report suggests, a well-designed tax cut now could be compatible with, and even a step towards, the basic reform of the tax structure which the economy must sooner or later be given for its long-term health.

Tax reform could be one of the new frontiers (for another, see below) that we shall need for our next long full-employment boom. Thus the immediate tax issue—whether and how to cut them as an anti-recession measure—had best be taken in hand by those who have a sound long-term view of tax policy. That means Eisenhower and Nixon.

TAKE ALASKA OFF THE ICE

While Americans debate whether a tax cut or a new fenderlength will cure the recession, a potential boom is hiding on our north doorstep, the territory of Alaska. It is a land of vast and immediately usable resources, which needs statehood to unlock its riches.

Alaska is ready for statehood right now. Bills for making it a state have been orbiting in both the House and Senate since the 80th Congress. At the moment their passage is held up by the willfulness of one Howard Smith, a Virginia gentleman whose impeccable manners include little real respect for either free enterprise or democracy. Smith, as chairman of the powerful House Rules Committee, has deliberately hamstrung the present statehood hearings.

It is customary to emphasize the moral right of Alaska to be a state. No right could be stronger, But there is also a pressing practical argument. Secretary of the Interior Fred Seaton, a really vigorous supporter of statehood, calls Alaska not only "America's last frontier" but a literal "land of opportunity." For Seward's Icebox of 1867 has become by 1958 what we might more properly call Seaton's Deepfreeze, a tremendous larder just waiting to be thawed for use by a few democratic processes.

Along with its great timberland and fishing grounds, its natural endowments provide Alaska with oil fields which may be of Texan magnitude, 31 of the 33 vital minerals on the U.S. strategic list, much good farming land and some impressive international trading prospects. A single example: Japanese steel mills now import their coal from as far away as the east coast of the U.S., while Alaska's undeveloped coal fields are at their back door.

With all this wealth stored up, Alaskans have been living as neglected third-class U.S. citizens. Fully 99% of Alaska is

still U.S. government property. Competitive private enterprise is held down by a web of "Don'ts" better suited to conditions in Antarctica. The taxing power of local government is rigidly restricted. The acquisition of land for homesteading is limited to 160 acres, a concept of farming that went out with the horse. By terms of a fuzzy 1920 law, all trade from and to Alaska must go in U.S. bottoms and on U.S. rails. The results of this outrageous protectionism are unmercifully high monopoly shipping rates and what Alaskans call the FCL—Fearful Cost of Living. (A haircut in Fairbanks costs \$2.50; a quart of milk 50¢.)

These built-in handicaps—to say nothing of some fancy exploitation by northwest business interests—stem directly from Alaska's remote-control government in Washington. Its laws are almost invariably founded on the premise that Alaska is a dry ice preserve of the federal government, a country of bombing ranges and brown bear sanctuaries.

Statehood will change all this, perhaps almost overnight. For only by making laws through their own local representative government can Alaskans bring in capital and let their boom go off. They want to use some of their resources, not just save them. They want to build industries and cities. They want to start trading.

The Alaska boom is something from which the entire nation will benefit, long-term and short-term. It will engage not alone the people who live in Alaska but those who trade with it and produce for it. So we urge the leadership of Congress to do its clear duty, let the issue be taken out of Smith's Rules Committee, brought to the floor of the House and voted on promptly. It is a good time to remind the world, and ourselves, that "pioneer" and "frontier" are something more than headings in our history books.



... you will demand Hollywood SANI-WHITE once you know how good it is ... the white shoe polish made famous by nurses. Keeps white shoes looking smart and fresh at all times. Resists ruboff, and of course safest for baby, because it's non-toxic. Deodorizes as it cleans.

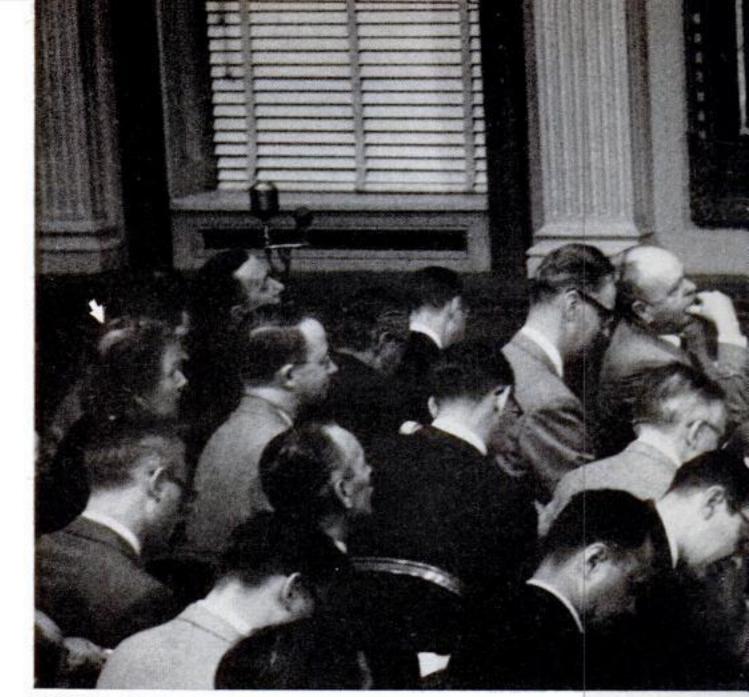


When you need white shoe polish, ask for Hollywood SANI-WHITE

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In Canada: William E. Taylor Ltd., 135-141 Raleigh Ave., Toronto, Ontario



GLARING AT HIS QUESTIONER, SARAH McCLENDON (ARROW), PRESIDENT

EXECUTIVE IRE AT A NEEDLING

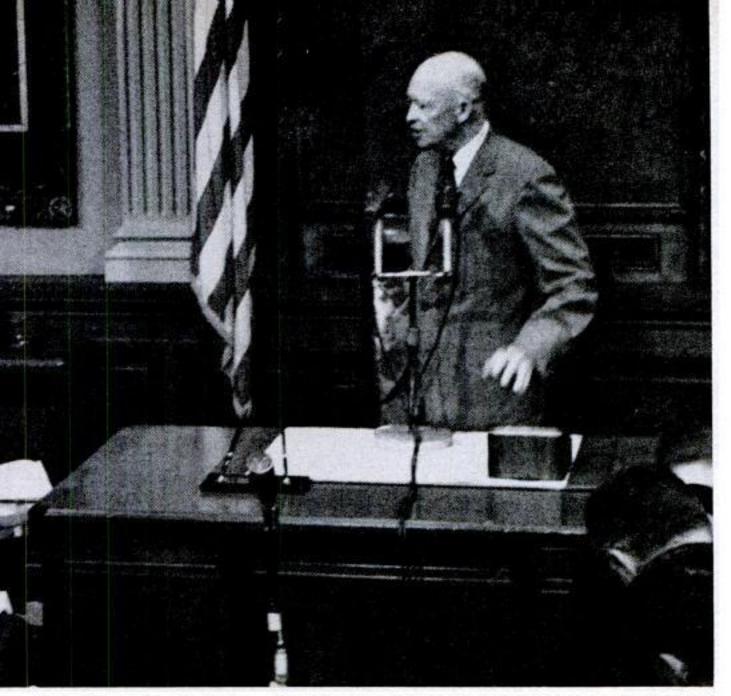
Press question on Pentagon plan draws an angry presidential reply

President Eisenhower has a legendary temper well known to his close associates but usually controlled in public. It flares particularly when his personal rectitude or his military judgment is impugned. Last week at a White House press conference a reporter asked a barbed question about the President's cherished plan for Defense Department reorganization—and the Eisenhower ire came out for all to see.

Sarah McClendon of the San Antonio (Texas) Light suggested that the proposed Pentagon reorganization bill might allow a future "dictatorial" executive to gut the present Army, Navy, Air Force and Marines and to weld their troops into a "personalized military force." The President snapped back. "Well," he asked Miss McClendon, "I've got one question to ask you. Have you read the law?" She had barely said "Yes, sir" when the President rapped out, "No, you haven't, I don't think." Then he firmly explained that the proposed legislation expressly preserves the identity of the four services. He wound up with a slap at the mention of a "personalized" force: "It might be just as well, sensible for you to say that the Congress is suddenly going nuts and completely abolishing the Defense Department."

The President's testiness reflected the tenseness of the hearings on the bill before the House Armed Services Committee on Capitol Hill. There, with questions much like Miss McClendon's, congressmen got Defense Secretary Neil H. McElroy to concede that the bill could be modified. But both the still unruffled Defense Secretary and his angry boss in the White House were adamant on the basic need for more unification of the U.S. armed forces.

DRIVING POINT HOME, President is taut and emphatic as he finishes answer to Miss McClendon.



EISENHOWER ANSWERS SHARPLY AT WHITE HOUSE PRESS CONFERENCE





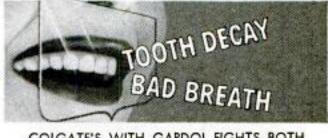
FIGHT TOOTH DECAY WITH COLGATE'S WHILE YOU STOP BAD BREATH ALL DAY!

Brushing For Brushing, It's The <u>Surest</u> Protection Ever Offered By Any Toothpaste!

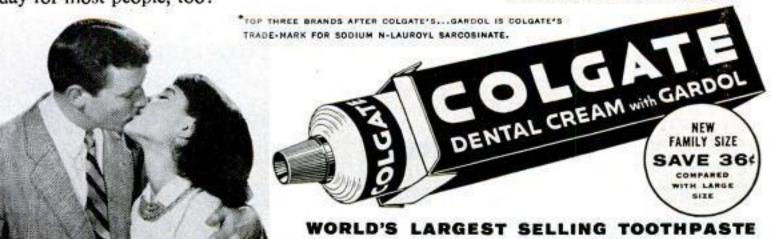
Because Of All Leading Toothpastes, Only Colgate Dental Cream Contains Gardol!

FIGHTS BOTH BAD BREATH AND TOOTH DECAY ALL DAY—
WITH JUST ONE BRUSHING!

Colgate Dental Cream with Gardol is backed by published results of 2-year clinical research on the reduction of tooth decay. And of all leading tooth-pastes,* only Colgate's contains Gardol to form an invisible, protective shield around your teeth that fights decay all day . . . helps *stop* decay with just one brushing! One Colgate brushing stops mouth odor all day for most people, too!



COLGATE'S WITH GARDOL FIGHTS BOTH DECAY AND BAD BREATH ALL DAY



CLEANS YOUR BREATH WHILE IT CLEANS YOUR TEETH



Free-wheeling makes mowing around trees, shrubs easy. Powerful 23/4 H.P. engine; 5 adjustable cutting heights -many other extras.

Costs More-Worth More \$149.95
An excellent buy at \$149.95 Slightly more in West and Canada

Now a new way to mow lawns **ELECTRIC POWER MOWERS**

... more convenient, lighter weight, easier to use, trouble-free.

Twin-Blade ROTARY



Lightweight, only 29 lbs. Twin blades and discharge chutes spread clippings evenly. Heavy-duty geared timing belts give positive drive. Sunbeam-built motor operates on ordinary home current.

only \$84.95



REEL TYPE

Starts at the snap of a switch. Reel type cutting action gives a velvetysmooth cut. Exclusive one-piece frame. Cutting height from $\frac{1}{2}$ " to $2\frac{3}{4}$ ".

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IN NEW YORK PRINCESS SORAYA SHOWED AN ENGAGING SMILE, BUT FAR MORE OFTEN SHE WORE A WISTFUL LOOK

BEAUTIFUL SORAYA IN NEW YORK

A queen no longer but still a regally beautiful and expressive woman (above), Princess Soraya of Iran came to the U.S. last week on a melancholy holiday. A month ago she was divorced by the shah because in seven years of marriage she had been unable to bear him an heir (LIFE, March 24). "Providence," stated Princess Soraya as she disembarked in New York, "bestowed upon me all the heart could desire ... but refused an heir" and the shah had no choice but to leave her. "I know all the women of America will sympathize with the depth of my feeling." In New York, like many another visitor, the princess went window-shopping, saw My Fair Lady and, with two escorts, spent an evening watching the chacha-cha at a ballroom (below). Then she sailed to Bermuda for a brief visit (see next week's LIFE). She will then return to New York for an indefinite stay. The shah himself will probably visit New York in June, but the two may not meet. She and the shah, the princess says, now no longer even correspond.

FLANKED BY TWO ESCORTS, THE PRINCESS (CENTER, BEHIND RAILING) WATCHES DANCING IN PALLADIUM BALLROOM





Heinz Krink-L-Chips



We're offering you this lovely gift because we know that once you taste Heinz Krink-L-Chips you'll be buying them again and again. That's the kind of pickles they are—crinkly, crunchy, candied to perfection! Eat them right from the jar . . . and enjoy them with sandwiches and salads. Ask your grocer to get Heinz new Krink-L-Chips if he doesn't already have them in stock.

CLIP THIS COUPON TODAY!

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Wholeso Esta

World's Most Refreshing Sleep!

Look your youngest...feel your youngest with

Serta "Perfect Sleeper" Mattress

Greatest mattress invention of all time gives you firmness with comfort



1. TOP SOFTNESS to relax muscles

Press lightly...see how Patented Sertaliner Construction gives you permanent top softness in the innerspring construction—not just the upholstery. Press lightly, feel how responsive at body contact. It's permanent comfort!



2. DEEP SUPPORT to level spine

Press hard...and see. At full body weight, ribbons of steel in Sertaliner Construction give firmness to the innersprings—distribute your body weight, as many doctors advise, for sag-free posture and refreshing sleep.

A WHOLE NEW WORLD of active, zestful living opens up—when you get the world's most refreshing sleep with Serta Perfect Sleeper mattress. You're really rested. You're more fun to be with. You look your youngest, feel your youngest—almost like turning back the years.

The secret is patented Sertaliner Construction. This remarkable invention has highly resilient springs that are inter-connected with silver ribbons of steel. One gives top softness to relax your muscles. The other adds deep support to level your spine.

No other mattress is built this way. No other mattress gives you this combination of firmness with comfort...and you can prove it to yourself. Make the simple 1-2 test (shown left) at your Serta dealer. See how Perfect Sleeper can give you the world's most refreshing sleep—for years to come!

from $$69^{50}$ to $$99^{50}$

Full or twin size
Matching box spring same price
Prices slightly higher in Canada and Hawaii

EASY TERMS TO FIT YOUR BUDGET



This mattress advertised in the Journal of the American Medical Association

Manufactured by SERTA ASSOCIATES, INC. Executive Offices, 666 N. Lake Shore Dr., Chicago 11, III. Serta Associates, Inc., 42 Leading Mattress Manufacturer Members in the U.S.A., Hawaii and Canada.

©1958 Serta Associates, Inc



Wesson Oil takes the smoke out of frying!

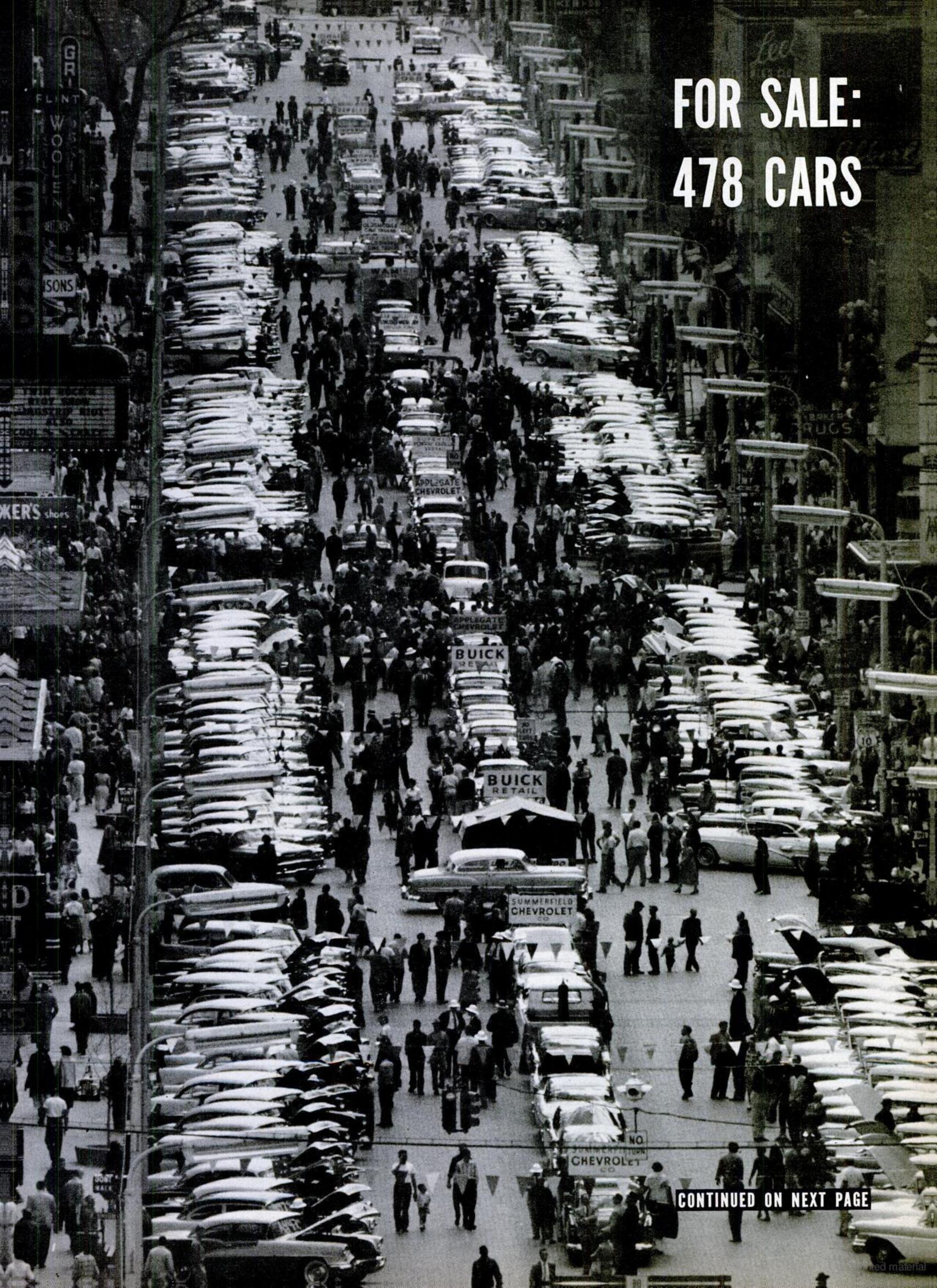


they contain an emulsifier. This additive is good for baking, but smokes at frying heat. Shortening that smokes is breaking down, and that can hardly be good for you.

wesson oil does not smoke because it is vegetable oil in its purest form—nothing added. So clear and delicate, you never taste it. No other oil as fresh, as pure and as light—or more highly rated for good nutrition.



FREE BOOKLET "FACTS AND THEORIES ABOUT FATS AND OILS IN THE DIET". Write Wesson Oil People, Box 106, New Orleans, Louisiana.



Cars for Sale CONTINUED



DANCING IN THE STREET after the day's selling ended, Flint folks square dance to the calling of Harold Bacon at intersection of Saginaw and Kearsley.

357 AUTOS GO IN HARD SELL

The cars on the preceding page stretched nearly seven blocks down Flint's Saginaw Street in the splashiest civic display of hard selling yet seen in a nation that was rediscovering the hard sell (LIFE, April 14). Car dealers and downtown merchants in Flint, Mich. joined forces for a huge one-day sales push. The new cars represented all 18 U.S. makes and they were for sale, on the spot. Lured by bands, fashion shows and bargains, 125,000 shoppers milled through Saginaw Street, kicking tires, slamming car doors, comparing deals up and down the street. By nighttime, when selling ended and a street dance began (above), 277 cars had been sold, another 80 awaited only financing. One department store did the heaviest Monday business in a decade and the best guess was that Flint's happy hard sell had grossed \$1 million.



SHOW FOR SHOPPERS, fashions were displayed by live models in window of the Vogue store. Show, repeated all day, helped store do record business.







Look for the original see-through Jockey package. You buy fresh, clean garments every time. And be sure to see the Jockey "Boxer-of-the-Month" at better stores everywhere.

Jockey underwear

BRAND

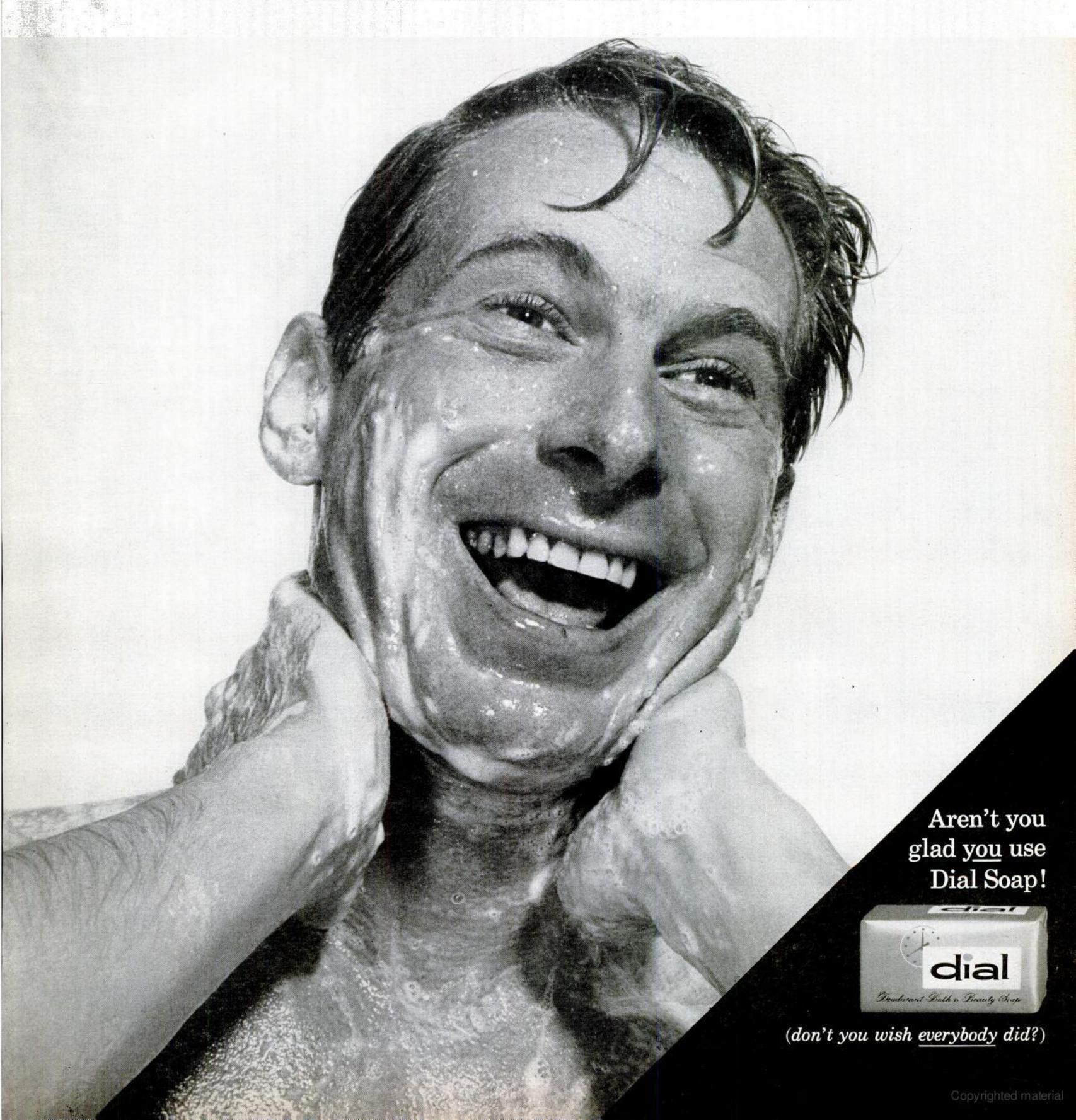
Booforts

Incorporated Kenosha, Wisconsin

CONTINUED

Wonderful Dial Soap!

Stops odor before it starts. Stops odor all over, all day long. For Dial's exclusive deodorant ingredient destroys odor-causing bacteria. Keeps you fresh hour after hour after hour. Wonderful Dial!



Enjoy life

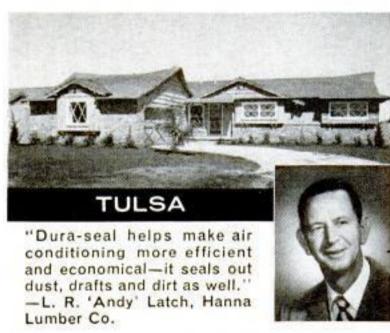
and save money...

"GUARANTEE"

Enjoy a more comfortable, cleaner, draft-free home-life. Save fuel in the winter and air conditioning costs in the summer. Make sure the wood windows in your new home are equipped with Zegers Dura-seal Weatherstrip & Balance. Dura-seal seals out weather—prevents drafts and dirt all year 'round . . . assures easy window operation. It's your "guarantee" of quality windows. It helps make a new home today's best investment. Three leading builders tell you why.

here's what the builders say:









SEND NOW FOR OUR FREE BOOKLET,

"What Every Home Buyer Should Know About Windows"—it will show you the way to comfortable living at less cost. Write today! ZEGERS, INC., 8090 South Chicago Avenue, Chicago 17, Illinois.

ZEGERS Dura-seal

Cars for Sale continued



MILKING A GAG, a local radio station employs a cow, led by Farmer Jeptha Skinner, to parade on Saginaw Street during sale as a promotional stunt.

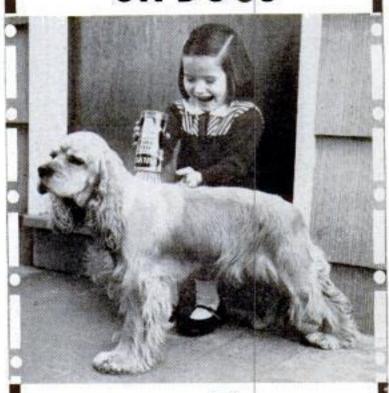


DOUBLE ATTRACTION along Saginaw Street consisted of Cherrill Payne modeling department store clothes while perched atop a Cadillac convertible.



SALUTING A SALE, a cannon was fired every time one of the cars was sold. At busy time during the day it was going off every two or three minutes.

NEW INSECTICIDE DOOMS ALL FLEAS ON DOGS



Instant - Action PULVEX ANTI-SCRATCH FLEA POWDER Now Contains MALATHION

(See Ad on Malathion on opposite page)

At last! An insecticide that kills all fleas, even those resistant to ordinary flea powders! Just dust your dog with new PULVEX Anti-Scratch Flea Powder. PULVEX now contains Malathion, the amazing discovery that's deadly to all fleas, plus ticks and lice, too. PULVEX Anti-Scratch Flea Powder also guards against flea infestation up to 7 days...stops dog itch...deodorizes. In 45c and 75c shaker-top containers. At pet, drug and dept. stores, or write to PULVEX, Chicago 14.



NEW

Appliance Values!

by LANDERS of ARKANSAS

Our years of experience and manufacturing know-how make it possible to bring you a new line of quality appliances at new low prices. Look to Landers of Arkansas for top value!



COOK-MASTER Probe Appliances





Steam and Dry Irons

Cooker-Fryers





Write for full information

LANDERS OF ARKANSAS INC., New Britain, Conn.

NEW INSECTICIDE DOOMS BUGS IN HOME AND GARDEN

Widely-used farm chemical—malathion now available to harassed public

A new insecticide called malathion (mal-a-thi'-on) has caught man's most persistent enemy with its antennae down. Reasons:...it is capable of killing practically any insect...it is low in toxicity to man and animals (lower, according to the U.S. Public Health Service, than the universally-used DDT). This combination of properties makes it ideal for home gardens, indoor use, flea and lice control on pets.

Farmers have been using malathion by the thousands of tons to protect the fruits and vegetables sold in America's markets. This spring it can be bought in garden supply and hardware stores. Malathion is not a brand name. It is an ingredient. Over 100 companies market malathion sprays and dusts under their own brand names. Aerosols are available for indoor use. "Malathion" may be featured on the package or in the list of ingredients.

For more information and folders, write manufacturers of basic material: American Cyanamid Company, Insecticide Department L, 30 Rockefeller Plaza, New York 20, N. Y.



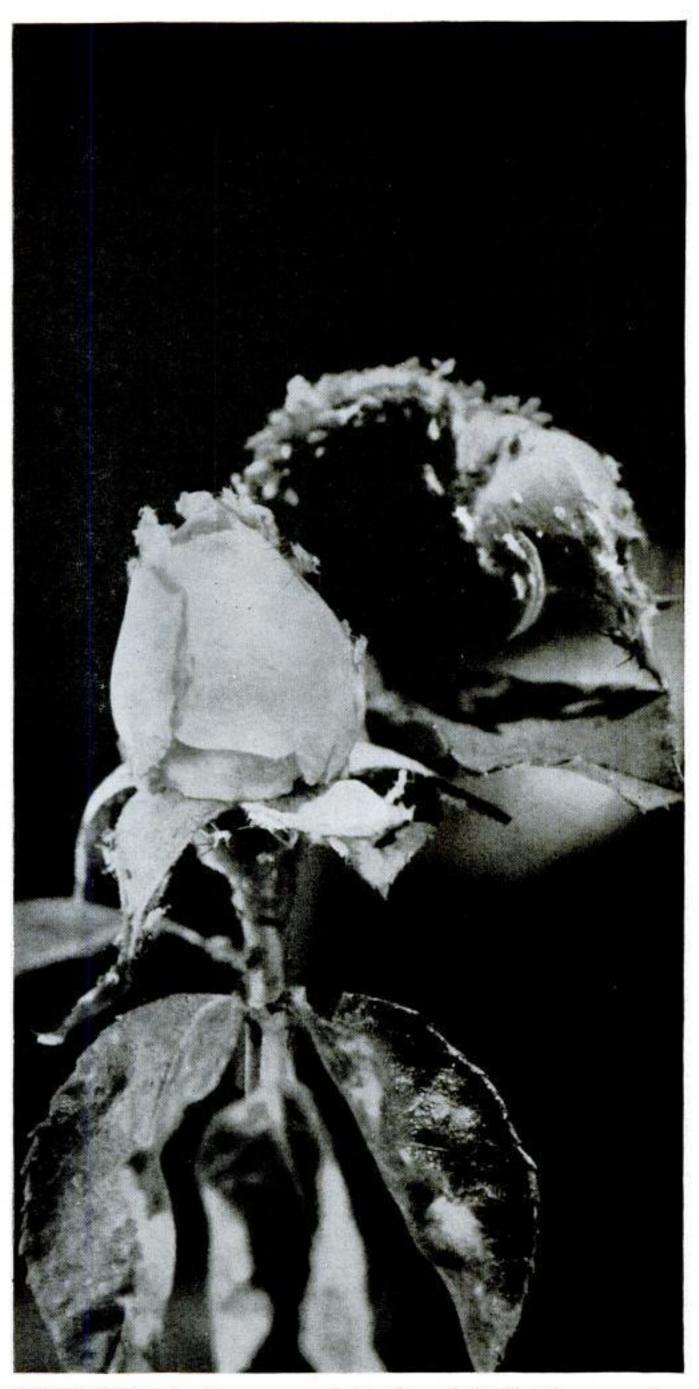
B-17 BOMBER SPRAYS MIAMI in successful, all-out war on the Mediterranean Fruit Fly, a new citrus pest. Effectiveness plus low toxicity to man won malathion the job.



PATIENT PUP is dusted by Cary McIver, Norwalk, Conn., second-grader. Plastic squeeze containers are featured by many of 100 plus firms packaging malathion insecticides.



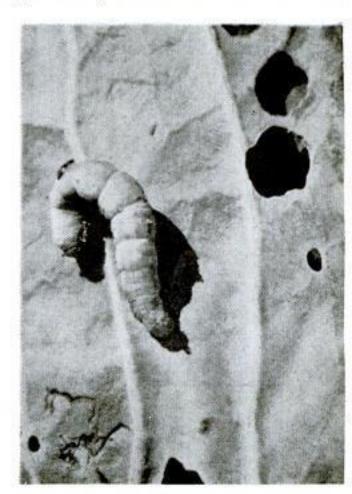
ONE INSECTICIDE, MANY PACKAGES, MANY BRANDS...From left to right: 1. malathion dust; 2. aerosol bomb; 3. plastic squeeze container; 4. cardboard dust gun; 5. liquids; 6. wettable powders. At left, hose attachments that meter malathion liquids into water stream.



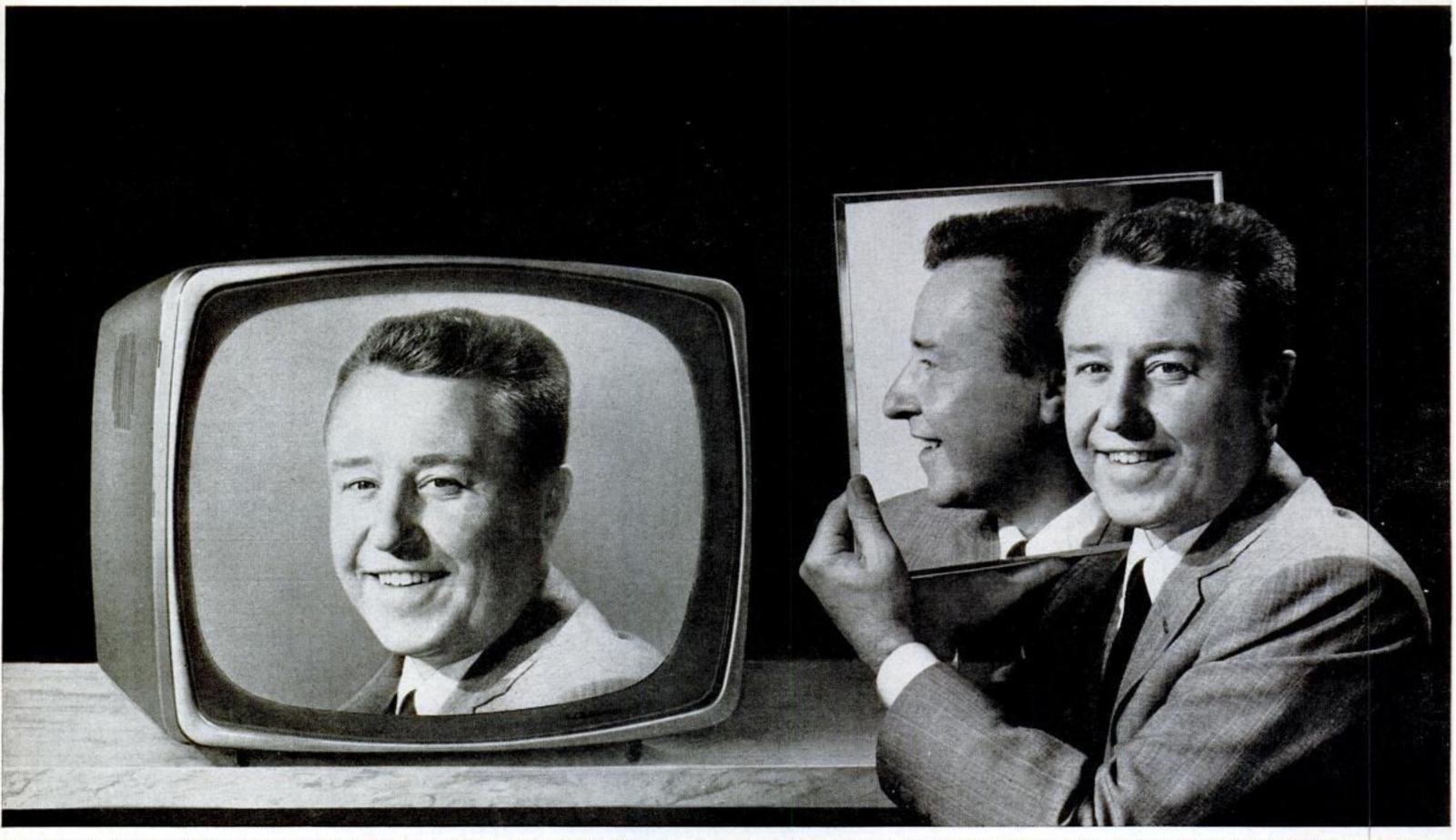
AILING ROSE is host to swarms of plant lice (aphids). They reproduce at fantastic rate, deform foliage, exude sticky "honeydew". Malathion cleans up whole range of damaging insects, is one-chemical arsenal.



ANT'S-EYE VIEW of cockroach. In many areas, roaches, flies and mosquitoes are immune to older insecticides. Malathion stops them all.



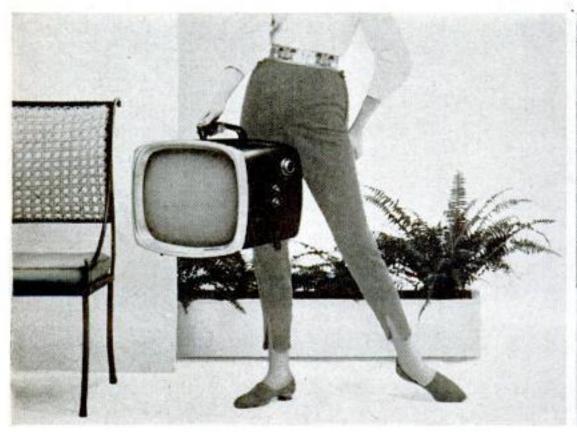
RAVENOUS CABBAGE LOOPER shows how fast bugs spoil months of garden care. Regular spraying can protect the entire home garden.



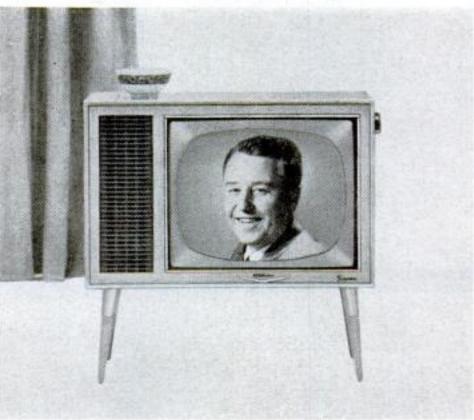
Rocklyn, new tapered table TV with 262 sq. in. picture. Gray or ebony finishes. (21T822) \$179.95

SEE THE GEORGE GOBEL-EDDIE FISHER SHOWS, TUESDAY EVENINGS ON NBC-TV IN COMPATIBLE COLOR.

"Never have I seen Gobel so clearly," says Gobel. "It's that new RCAVictor mirror-sharp TV!"



Graduate, "Flight-Line" portable TV with 156 sq. in, picture. Ebony or gray finishes. (17PT807) \$169.95



Garvey, lowboy TV console with 262 sq. in. picture. Choice of 4 striking finishes. (21T846) \$289.95



Cooper, swivel console TV with 262 sq. in. picture. Mahogany- or limed oak-grained finishes. (21T839) \$269.95

"Take it from your ol' buddy George, friend. When you see Gobel on this RCA Victor TV you see the *real* George—same as I see in my mirror every morning—sharp, clear, devastatingly handsome!

"Now, if you've been thinking I was a tall, dark Gobel, or a fuzzy Gobel, you've either been tuned to the wrong channel or you need a TV with this new mirror-sharp picture."

Old Lonesome George is right. RCA Victor really does give you the sharpest picture in TV. And with it you get the handsome, cleanlined cabinetry that's setting the pace for the industry. Balanced Fidelity FM Sound and the

newest and finest tuning, too. All yours in 35 portables, consoles, table models. From \$129.95. At your RCA Victor dealer's now.



RCA FACTORY SERVICE. Only RCA Victor TV
owners can buy an RCA Victor Factory Service Contract for expert service and installation by RCA's own
technicians in most TV areas, Mfrs. natly. advd. VHF
list prices shown. Slightly higher for West, South. UHF
opt., ext. Prices, specifications subject to change.



EVERY YEAR MORE PEOPLE BUY RCA VICTOR THAN ANY OTHER TV



CAMPAIGN GIMMICKS used by candidate George Hawkins in Clanton are his own portable stump and symbols of famous earlier southern campaigns: guitar

Governor Jimmie Davis used in Louisiana; red caviar of North Carolina's Senator Robert Reynolds, pitchfork of South Carolina's Senator "Pitchfork Ben" Tillman.

ANYTHING GOES FOR GOVERNOR IN ALABAMA

The 14 primary candidates put on election carnival with pitchforks, hillbilly bands, kinfolk and mules

Even for the Deep South, where big crops of candidates and colorful campaigns are commonplace, the gubernatorial primary in Alabama rates as an electiontime spectacular. A record total of 14 candidates known in the state as "the thundering herd" have taken to the stump or taken the stump to the voters (above). Naturally, all are Democrats, because the Democratic primary is the only Alabama election that counts. There are

so few real issues that with the voting only a few days off the campaign has become a contest of showmanship. Almost every candidate has a guitar, a group of hillbilly singers or a gag. Before a candidate and his entertainers come to town, a loudspeaker car usually precedes them, giving equal billing to the politician and his performers. When the show starts, the candidates often get lost in all the singing and the shouting.



CONFEDERATE QUINTET stands five square behind Jack Owen, the president of Alabama Public

Service Commission. If necessary, Owen would deputize all white men in the state to save segregation.



FAMILY MAN, William Dodd, millwright and farmer from Bessemer, stands with son-in-law, seven

children and wife in truck before his homestead. He is running on a bet, campaigns spasmodically.



GRAND OLE OPRY DIVA, Minnie Pearl, performs for a wall-sitting crowd at Hamilton in behalf of



MULE TEAM pulls Karl Harrison, state representative, at Anniston rally. Little mules—they are



Circuit Judge George Wallace who is off buttonholing the voters. Judge Wallace has ordered sheriff

in his district to lock up any FBI investigators who show up to find civil rights violations. In addition

to Minnie the judge has a band that entertains the voters with hillbilly numbers and rock 'n' roll.



really burros—show Harrison's independence from big business interests known in state as "big mules."



UPRIGHT CANDIDATE, Shearen Elebash, Montgomery jeweler, hauls piano around in pick-up, sings

both sophisticated and corny songs. Graduate of Choate and Yale, he is a favorite of country club set.

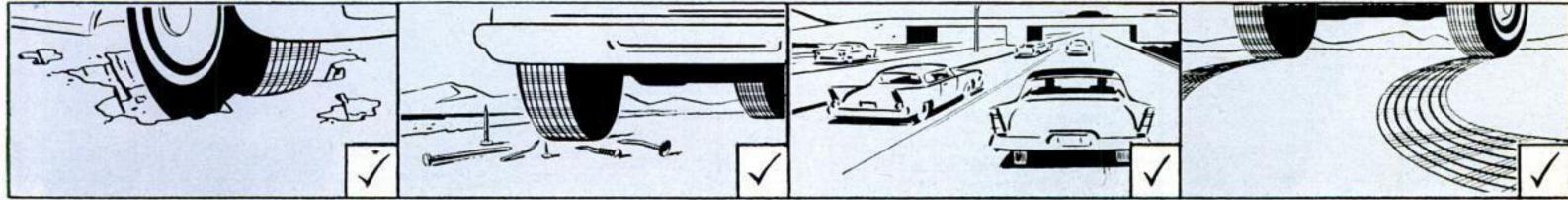


EVANGELICAL ENTRY, the Rev. Billy Walker, Southern Baptist preacher from Montgomery, plays guitar as daughter Brenda, 10, sings and son Billy Jr. plucks bass fiddle. Walker does not use title "Reverend" in campaign for fear voters will think he is holding revival. He opposes liquor, corruption, integration, recession.

REFLECTED CANDIDATE, A. W. Todd, state commissioner of agriculture, is mirrored in a store window while delivering a speech at Maplesville. Todd uses a group of singers who render a paraphrase of *When the Saints Go Marching In*, with the words changed to proclaim that Todd will roll in as governor.







Blowout Safety? If you travel rough roads like this, you need the blowout safety of the new U. S. Royal Master...so strong it was used in landing a 21-ton airliner!

Puncture Safety? Driving where you're apt to pick up nails, you need puncture safety. The new U. S. Royal Safety 8, with nails through tread, went thousands of miles with no flat!

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Alabama Primary CONTINUED



STRONG CONTENDER, John Patterson of Montgomery, takes time out from his duties as state attorney general

to attend political rally where he greets costumed participants in celebration of the 75th anniversary of Anniston.

THE TOP COMPETITORS SHAKING AND SPEAKING

When the last quivering guitar notes have faded at Alabama rallies the people who have not also faded can meet the candidates. Many of them would prefer to meet the country music makers, but the politicians persevere with hand-pumping and haranguing of the voters. Three men appear to have pulled ahead of the big field: John Patterson, Jimmy Faulkner and George Wallace, all staunch segregationists. Among other candidates, A. W. Todd stands out because he bears down heavily with gospel music (p. 61), but does not have much of a chance. Three of the low-runners are shown on page 62. No matter who leads the primary there probably will be a run-off election because to win a candidate has to have a majority of all votes cast, an unlikely happening in a field of 14.



CAMPAIGN'S KEFAUVER, Laurie Battle, insurance man and ex-congressman, shakes hands outside Hayes Aircraft Corporation in home town, Birmingham. He wears bandage on hand bruised by shaking in effort to catch the leaders.



SLIPPING CANDIDATE, Jimmy Faulkner, the owner of weekly newspaper and radio station in Bay Minette, speaks in Fultondale. He has the best political organization in race and was early favorite but recently has lost ground.



BEST BET TO WIN is George Wallace, a circuit judge from Clayton, here speaking at Hamilton. Wallace is a forceful, impressive speaker, but he has been criticized during the campaign for "bragging on himself" too much.

Ladies swoon...

singers croon...

the world's in tune...

life's a happy melody

for the man who

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Dutch Masters. Seven

sizes of luxury cigars

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CONTINUED



Trunk, '58 Chrysler, cleaned



VISTA TIME: 7 mil

DURATION: up to 6



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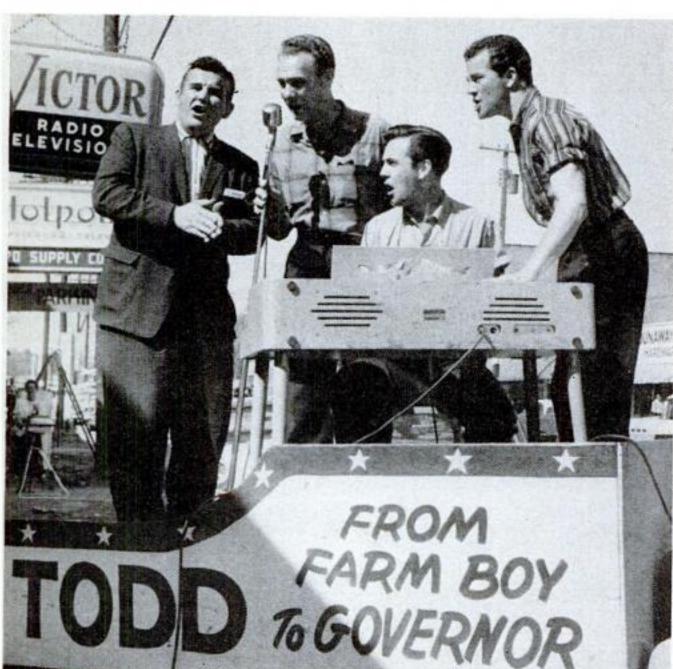
Alabama Primary CONTINUED



A. W. TODD greets voters through car window at Maplesville. His campaign features gospel songs in a song book that is illustrated with pictures of Todd.



© 1957 BY GOSPELTONE MUSIC PUBLICATIONS



GOSPEL SONG used in Todd's campaign is May the Lord Bless You Real Good, which is sung by Wally Fowler (left in bottom picture) and the Sons of Song.

CONTINUED



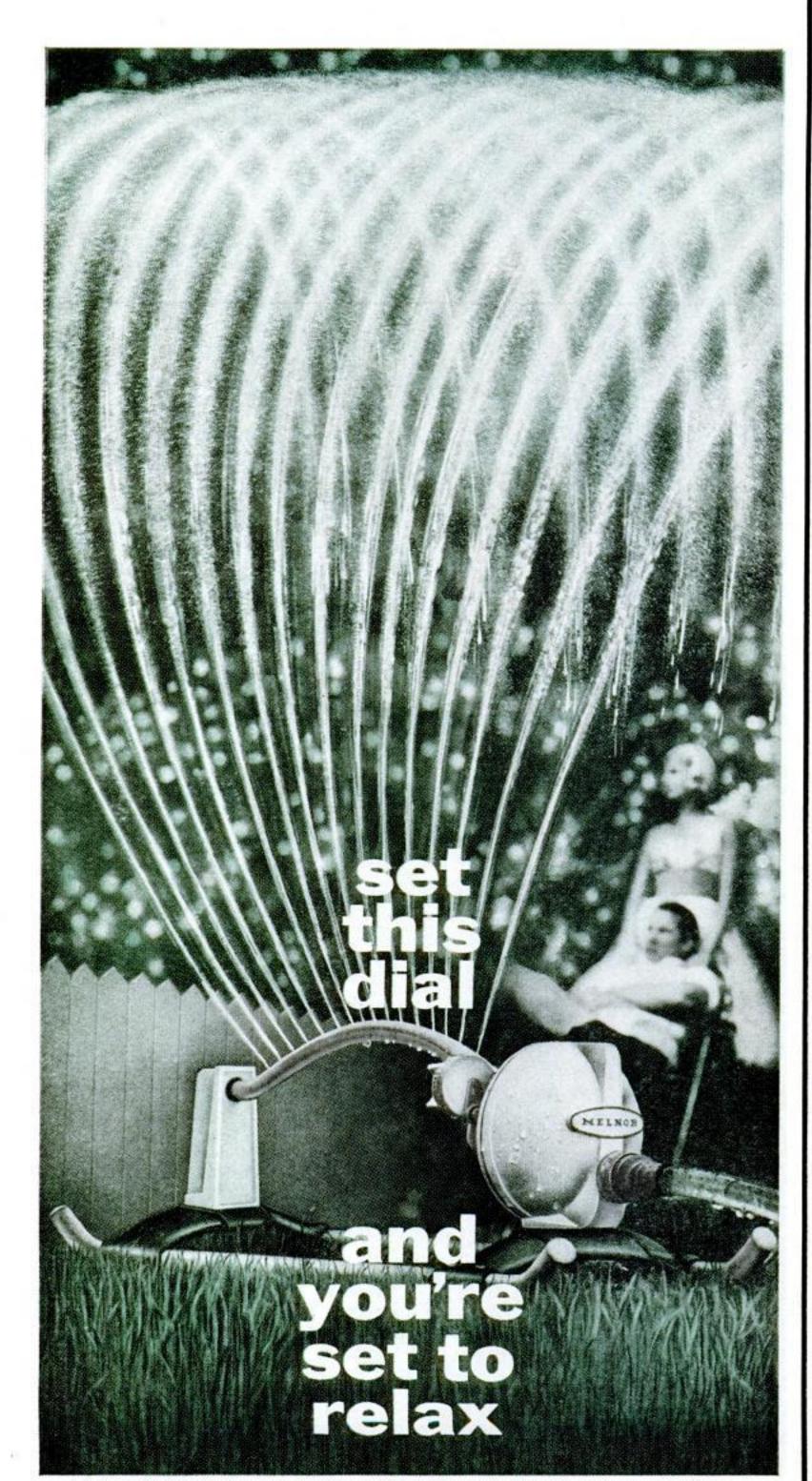
Haggar "Luseta" Slacks, 100% Dacron, are amazingly cool and practical. They're completely machine-washable and machine-dryable, the crease stays in . need little, if any, pressing! The lightest, smartest, best-fitting slacks you'll ever wear! Haggar "Luseta" Slacks, about \$8.95. Other Haggar Slacks \$6.95 - \$20.00.



Jack Kramer, famous tennis pro, says, "You can't beat Haggar Slacks for fit, style and comfort!"



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MELNOR'S SWINGIN' SPRAY WATERS THE EXACT SHAPE OF YOUR LAWN!

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MELNOR'S AQUA-GUN HOSE NOZZLE with exclusive

Green Trigger that gives instant spray control, from fine mist
through full stream. Locks at any spray, automatically shuts off at a
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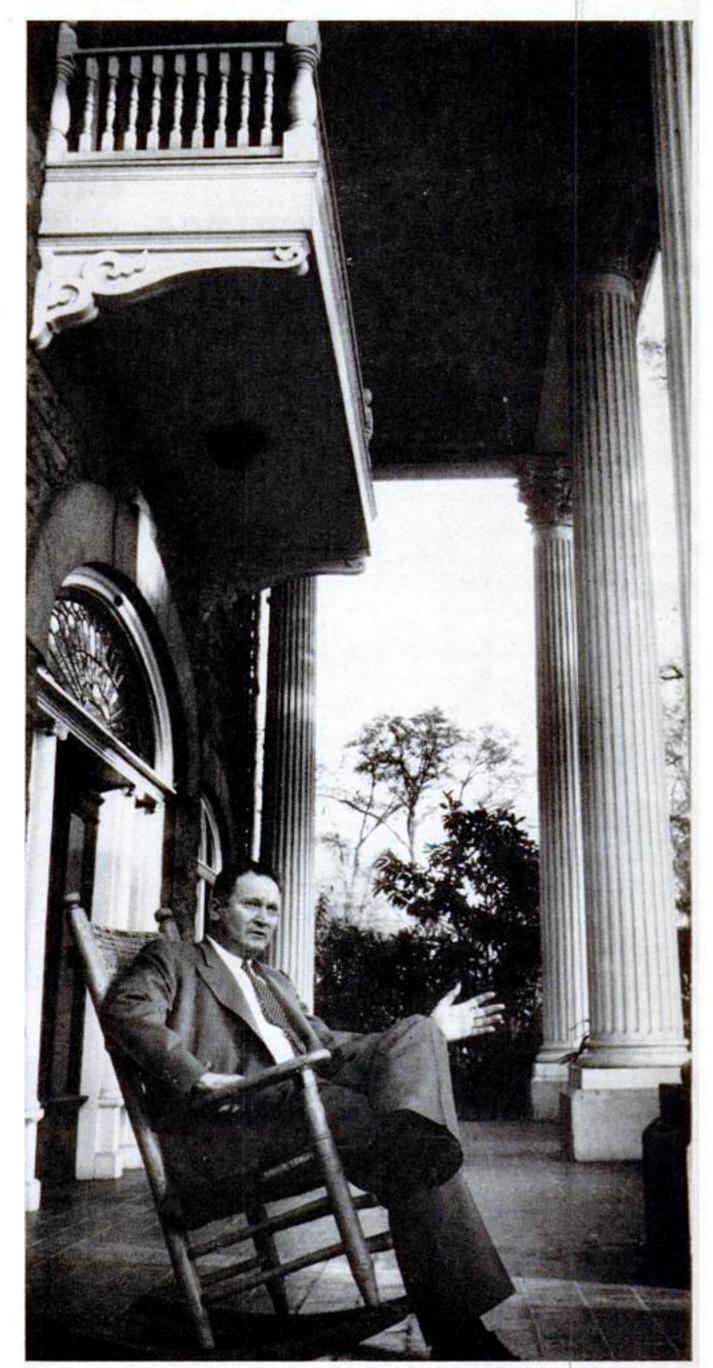
Alabama Primary CONTINUED



JOHN CROMMELIN, retired admiral, calls integration "Satanic plot."



RALPH PRICE, Louisville insurance salesman, is only 5 feet tall.



WINSTON GULLATTE, insurance man who stays at home in Selma, says, "The voters may get so nauseated over this hillbilly music they'll vote for me."



A CUBAN WAY WITH STYLES

Designers' U.S. hits are set off by their native land

Within the last few years three young Cubanborn designers have made a spectacular splash in American fashion with clothes distinguished by a romantic Spanish flavor. Adolfo is the creator of high-style hats, often inspired by traditional Cuban headgear (below). Luis Estevez, who designs ready-to-wear clothes, likes to dramatize cocktail dresses with flamenco flounces. In his custommade designs Miguel Ferreras uses the rich colors of Spanish painters, fabrics and embroidery that seem borrowed from the time of Spanish grandees. Their two current collections combine fashion's latest chemise dresses and easy-fitting suits with traditional Spanish femininity and grace.

The clothes are shown in Trinidad de Cuba, 230 miles from Havana. In the early 1800s the city was the seat of planters' lavish palaces, but it declined and became a backwater. Recently the government made Trinidad a national monument to preserve its crumbling architectural heritage.

Photographed for LIFE by GORDON PARKS



A PLANTER'S PANAMA

Framed by leaves in the patio of a 140-year-old house is a wide-brimmed Panama, inspired by the hats worn by Cuban sugar planters. It is worn over a snood of many colored ribbons. Like all the hats on these pages, it is designed by Adolfo. In background are the ruins of town's first city hall.

FLOWING IN A BELFRY

In the belfry of the monastery of St. Francis is an evening coat of flowing taffeta, worn with a cap of white roses. The church was constructed in 1813 and now bushes sprout through cracks in the weathered stone. In the background are the Guamuhaya Mountains which encircle the town.

opyrighted imaloria







A SAILOR IN THE SQUARE

Trinidad's square spreads out behind a wide Spanish sailor hat, worn over giant flower earmuffs. Trinidad was founded on this spot in 1513. Private home at right was built in 1780, has wood columns.

YELLOW ROSES IN A PALACE

A ball gown in a yellow Spanish rose print is worn (opposite) in the plant-filled patio of Brunet Palace, built in 1808, now a museum. Guns used in early uprisings against Spain hang on the wall.

HEADDRESS OF AN INFANTA

Criolla headdress of flowers, which was made fashionable in Cuba by a visiting Spanish infanta, is shown against a wall dating from 1790. Wall is mottled by plaster which has flaked off with age.





CUBAN WAY

CHEMISE BEHIND BARS

Behind the bars of a wooden grille of a workman's house is a chemise cocktail dress with a deep flounce. The Spanish feeling of the dress is heightened by a red flower headdress and long black gloves. Most of the city's wooden grilles were lost in a fire which raged through the town in 1783.

A SHEATH IN IRON GRILLE

Caged in a delicate iron window grille is a loose sheath with a flamenco flounce that is embroidered in black roses. Gailly painted shutters were often used in Trinidad in place of window glass. Dresses shown on these two pages are by Luis Estevez. (Other outfits are by Miguel Ferreras.)



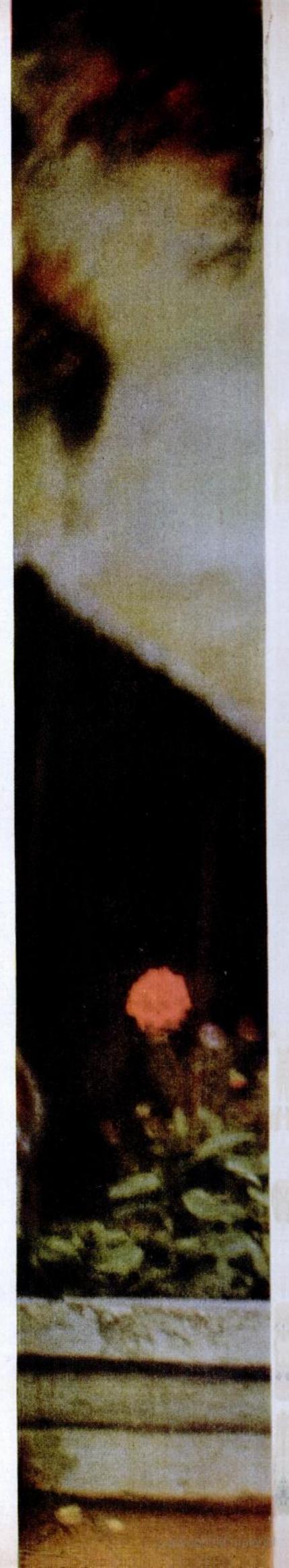


A HAT OF CUBAN ROSES

A sleeveless white wool two-piece dress is worn with an Adolfo taffeta hat printed with Cuban roses in a courtyard doorway. Stained glass was commonly used in archways in the early 1800s.

THE LOOK OF A GRANDEE

The elegance of the Spanish landowners is reflected by Ferreras in his richly embroidered linen suit worn with a lace-trimmed Panama hat. Behind is a bank of lush bougainvillaea and dahlias.







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"DRY"...but not a weak preventive powder.

REVOLUTIONARY...amazing new Safety Beads packed with concentrated chlorine bleach to get clothes clean as you've ever seen!

box. The easy way it handles. The security. Each Safety Bead releases pure chlorine bleach in your washer. You lose nothing but the problems of liquid bleach.



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Here's your opportunity to use new Beads-O'-Bleach for all your laundry and household cleaning jobsat a low introductory price! Use first coupon now. Others during May and June. If you can't use all coupons give extras to a friend. She'll thank you. Clip now and save!

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(any size) during dates shown. MANY 1 - MANY 14.

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NICE AS SOAP TO USE. You pour and sprinkle new Beads-O'-Bleach from the box. Note the clean smell. No pungent bleach fumes to wrinkle your nose.

NO SPLASHING, NO SPILLING WORRIES. Safety Beads can't hurt clothes - release bleach only in your washer.

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PLUS 2¢ HANDLING IF TERMS OF OFFER HAVE BEEN NET. ANY OTHER APPLICATION CONSTITUTES FRAUD, INVOICES PROVING PURCHASE OF SUFFICIENT STOCK TO COVER COUPONS PRESENTED FOR REDEMPTION MUST BE SHOWN ON REQUEST, VOID WHEN PRESENTED BY OUTSIDE AGENCY OR IF PROHIBITED, TAXED OR RESTRICTED. CUSTOMER MUST PAY ANY SALES TAX. CASH VALUE 1/20 OF 14.





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Tale 13-Tale 32

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New...3 cylinders, 60 hp!



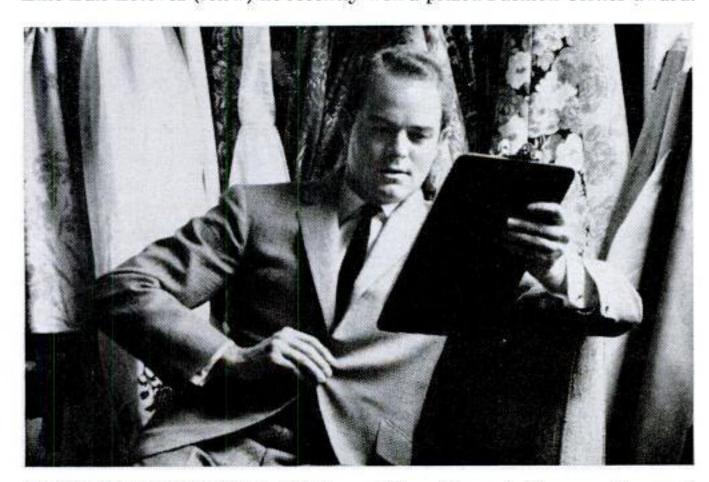
A TALENTED TRIO



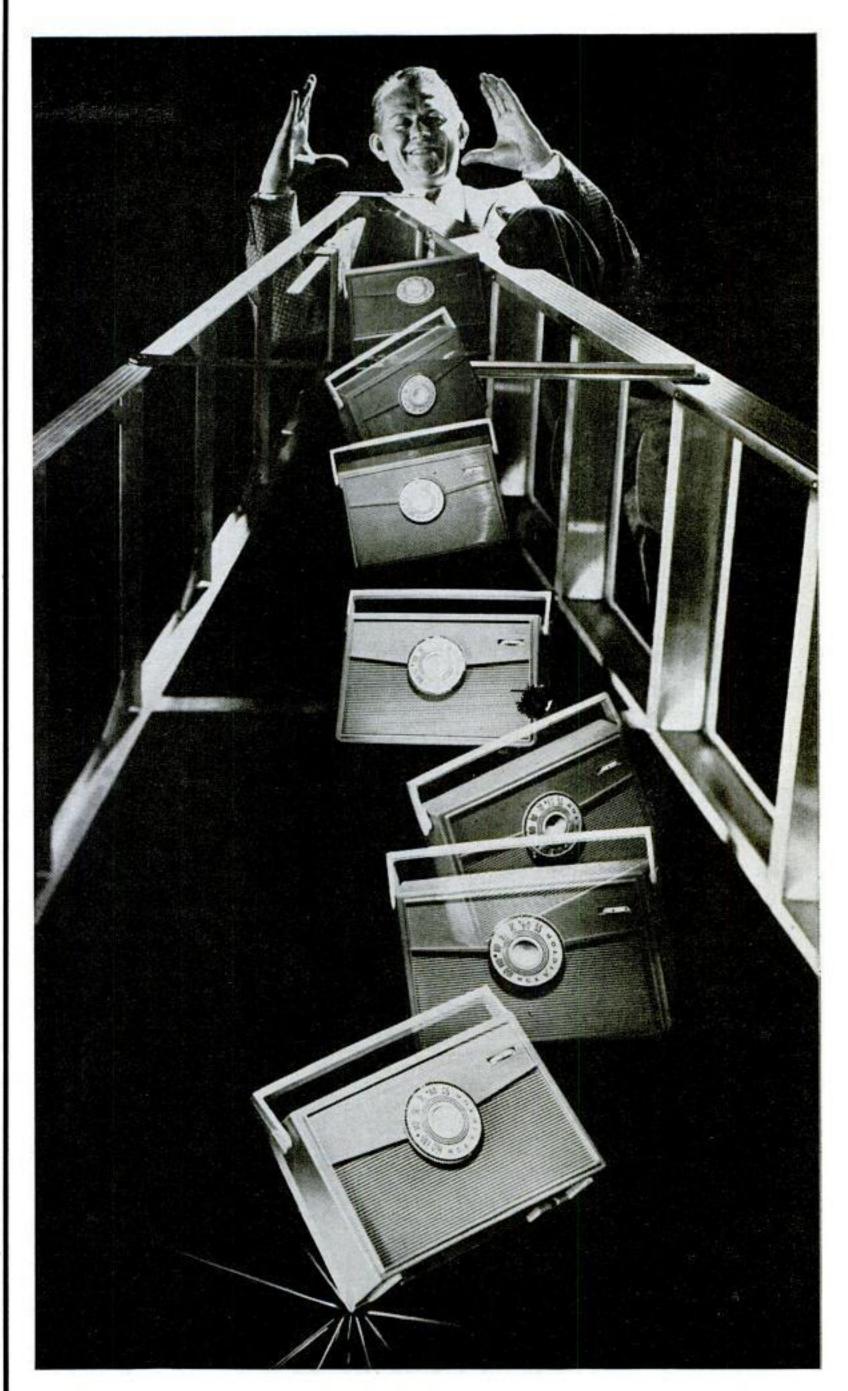
CUSTOM DESIGNER Miguel Ferreras, 31, is oldest of the designers whose clothes are shown on the preceding pages. Born in Havana, he came to New York after studying architecture and working for a Paris couturier. He does some 60 designs a year, sells his small output from \$325 to \$1,200.



HAT CREATOR Adolfo Sardinias, 29, born in Cardenas, has been designing hats since he was 19. Currently designing for Emme, he sells his hats to top stores and to 300 private customers. His average price is \$65. Like Luis Estevez (below) he recently won a prized Fashion Critics' award.



MASS PRODUCER Luis Estevez, 28, and born in Havana, also studied architecture, is a partner in a \$5.5 million firm which he helped found just three years ago. He designs four collections a year of 75 styles each, most of which sell for \$80. Some of his designs have sold over 3,000 copies.

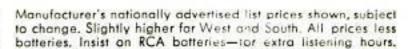


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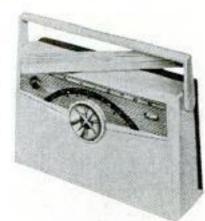
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Vaughn Monroe drops RCA Victor's new economy, it plays on AC or DC current portable radio, The Shipmate, 10 feet to as well as on batteries. Available in make a point: you can confidently take white-and-maple sugar; white-andmusic, sports, news with you wherever turquoise. (1BX5) \$29.95. At RCA



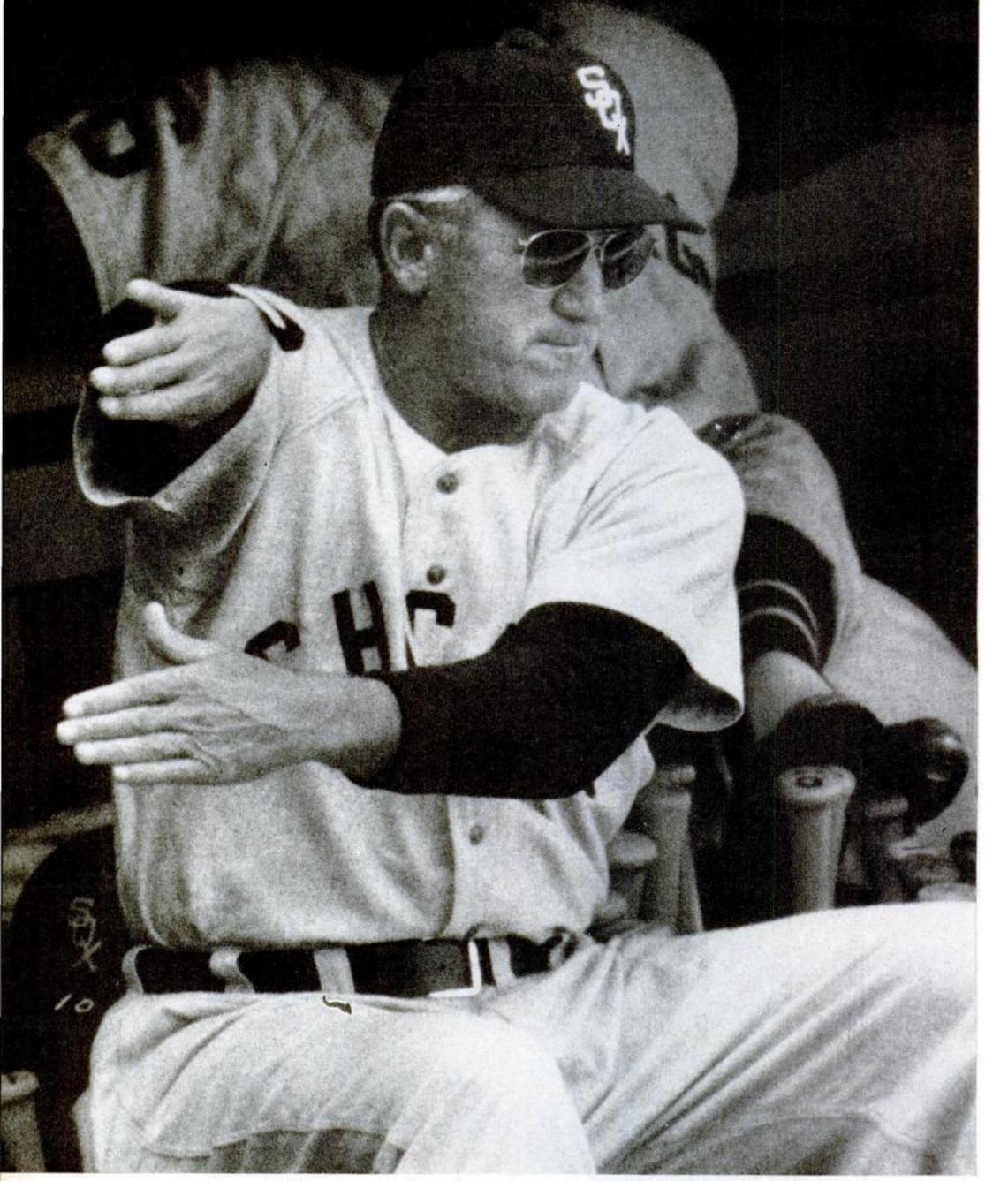


"Wavefinder" antenna turns for best signal. Green-and-white; pinkand-white; yellow-andwhite. The Caravan. (1BX6) \$34.95





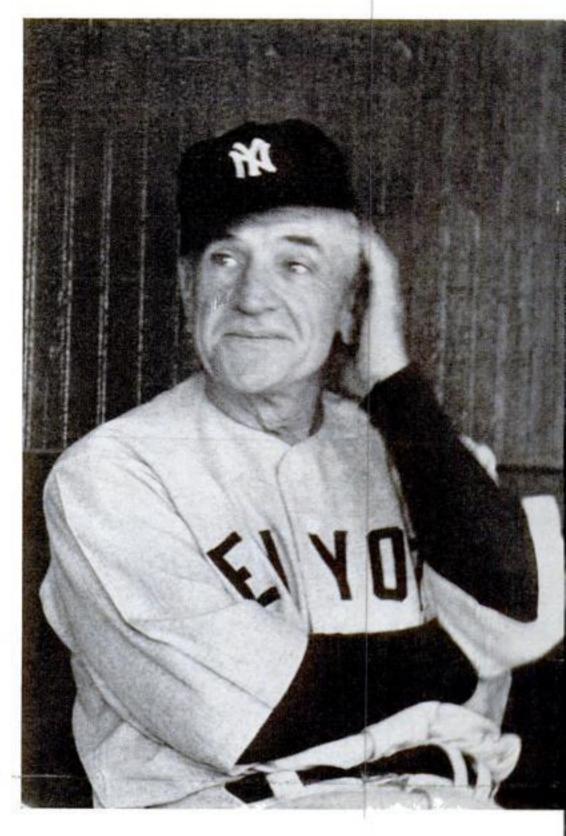
New sliding bar station selector. Smart, two-tone styling. Flameand-beige; turquoiseand-beige. The Cruiser. (1BX7) \$39.95



CHALLENGER, Al Lopez, gesticulates from the dugout to change a fielder's position before pitch.

CHAMPION, Casey Stengel, reflective in dugout, has found Al runner-up six seasons, ahead once.

A PLOT TO LICK YANKS



THIS TIME LOPEZ HAS ASSEMBLED SOME STENGEL NEMESES

by MARSHALL SMITH

FOR as long as most people can remember, a Yanqui desperado named Casey Stengel has been shooting up the American League and getting away with the swag. Catching him seems almost impossible. Not only does he know all the tricks and the short cuts, but his equipment is superb. He has powerful guns capable of firing accurate, murderous shots that make an enemy helpless. He also has the horses—the finest, strongest, swiftest horses that money can buy. If any of his guns fails to shoot straight, he has others cached away in carefully protected arsenals. If any of his magnificent horses gives out, he has others hidden in the canebrakes, waiting for his whistle. With all his limitless resources and daring, the Yanqui should feel completely safe from pursuit.

But he does not. Every time he looks over his shoulder he sees the same relentless, inescapable figure. This pursuer is not a glamorous hero but a doleful, threadbare man wearing a big sombrero. He is riding a burro so forlorn that every step looks as though it might be its last. His guns are peashooters. He has no arsenal, no spare mounts, no resources. But he is always there, always following.

Alfonso Ramon Lopez never gives up. For seven years, whether managing the Cleveland Indians or the Chicago White Sox, he has been the man Casey Stengel and his elegant New York Yankees have had to beat. Despite his inferior material Lopez has never finished worse than second to Stengel. One year, in a surprise turnabout, he finished first and Stengel finished second. In his unassuming way Al Lopez has become the great hope of that large army of baseball enthusiasts who

do not care which team beats the Yankees so long as somebody does. In appearance Lopez scarcely seems to qualify as the standard bearer for the Yankee-haters of the world. His swarthy, deadpan face is the

image of repose. He is the mildest of all baseball managers—friendly, soft-spoken, considerate. He is such a nice guy that by Leo Durocher's famous standard the wonder is that Lopez ever finishes anywhere except last. That he can actually finish second is a miracle. And this year, despite a fast Yankee start and a slow White Sox start, he predicts that he will bring about a greater miracle and finish first

bring about a greater miracle and finish first.

Since last fall Lopez has been industriously redesigning his secondplace White Sox into a team of Yankee-killers. In trades over the winter he picked up Early Wynn, a hungry old pitcher whose favorite meat is Yankees. He got an outfielder named Al Smith who always plays his best against the Yankees. He got Billy Goodman, a line-drive hitter who considers Yankee pitchers his own private property. He got Relief Pitcher Ray Moore, who specializes in setting down Yankees.

Lopez' anti-Yankee efforts were inspired by the fact that last year he missed the pennant by eight games, while the White Sox lost their season series with the Yankees by six. When the two adversaries square off for their first skirmish of 1958, a doubleheader at Yankee Stadium, Lopez expects things to be different. Besides a team designed for the express purpose of beating Yankees, he has a coaching staff designed to torment Stengel. Like Lopez, coaches Tony Cuccinello and Johnny Cooney played for Stengel back in the lean days at Brooklyn and Boston

the Golden Touch of Quality by MILLER



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NEW YANKEE-KILLERS, shown in warm-up pepper game, are (left to right) Pitcher Early Wynn, Outfielder Al Smith, Pitcher Ray Moore, Infielder Billy Goodman, all acquired because of prowess against New York.

PLOT TO LICK YANKS CONTINUED

when it took masterful thinking by all concerned just to win a single ball game. "Sure, they're smart," says Stengel. "I taught them."

In those days they were all "Casey's boys." Today they steal his signs and anticipate his moves. When the Yankees are at bat, Cuccinello watches Stengel with an unblinking eye, hoping to spot his signals or, if that fails, to rattle him. The intensity of the stare causes Stengel to squirm and pace up and down in the dugout. Occasionally he jerks around to thumb his nose at Cuccinello. "I'm not going to change my signs. I'm just going to change what they mean," says Casey. To this Cuccinello just grunts complacently and says, "He'd better change himself." When the Yankees are at bat Lopez' lieutenants can tell about half the time exactly what play is coming up. When New York is in the field they often know whether the next pitch will be a fast ball or a curve. Cooney's sharp eyes stay glued on the catcher, alert for little giveaways. Other analytical eyes from the bench and the coaching lines are trained on the pitcher, quick to interpret the way he holds the ball, the speed of the windup and a dozen other barely noticeable tip-offs. Because hand signals are too slow to relay stolen information to the hitter, the air is kept alive with Chicago whistles and code words. The knowledge of what pitch is coming up is so valuable to some hitters that Joe Gordon, an oldtime Yankee, used to say, "Just tell me the pitch and give me one swing."

Lopez in action, especially against the Yankees, is the classic baseball manager. With the pressure on, the refinements and intricacies of the art are personified in his work. On offense he is strictly a "book" manager, taking few chances and playing no hunches. But on defense, where he is most effective, Lopez is up and down off the Chicago bench like a Yo-Yo. He re-evaluates the situation after every pitch, then communicates his findings to his pitcher and moves his fielders accordingly.

The Lopez shift

OPEZ' defensive moves are based on a theory he has about hit-Leters. He believes that they swing sooner and harder when they are ahead of the count, hit normally when the count is even and swing late and cautiously when they are behind. By shifting his fielders as the count changes, Lopez often puts them in the path of drives that otherwise would go for hits. Even so, he tenses on every pitch. Each one, he is certain, will trigger the explosion that blows up the whole world. "It's easier when you're a player," he says. "You don't see the dangers."

In one big game against the Yankees last year, Lopez, who was protecting a one-run lead, instructed his pitcher to throw low so the batter would hit a grounder, then carefully placed one of his infielders right in the expected path of the ball. The grounder went right through him and almost cost the White Sox the game.

Partly because of such unpredictable situations, field strategy alone rarely wins a pennant, or even ball games. In the opinion of expert



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STENGEL GRADUATES Lopez (center) and his coaches, Tony Cuccinello (left) and Johnny Cooney, talk shop in a Chicago cocktail lounge.

PLOT TO LICK YANKS CONTINUED

baseball men the manager who has the best tricks and the cleverest tactics will win only a few games a year that he would otherwise have lost. Games are won by the team with the best hitters, pitchers and fielders. Last year's White Sox, a well-rounded team in most other respects, lacked good relief pitching. As a result they lost 27 games by a single run—and no amount of smart managing could have prevented it.

There is another, far more vital quality a manager must have, especially in the modern game: the ability to get along with his players and get the most out of them. In this respect Al Lopez is

without an equal.

Baseball players have changed since the days of John McGraw when managers were hard-boiled and players took it. Today players require different treatment. They have been to college. They get big bonuses for signing. They ride around in fancy automobiles. "If you holler at them, they sulk," says one National League manager. "If you don't keep them happy, they don't hit. Do you know how far John McGraw would get today? He wouldn't get to first base."

Lopez is the antithesis of the pugnacious McGraw. He is firm but he does not demand. He is fiercely competitive but he does not have tantrums in the clubhouse. He is the world's hardest loser but he does not take it out on his men. "The only thing worse than losing a ball game," says one of his players, "is watching Al sit and stare at his toes in the clubhouse afterward."

The Golden Rule

OPEZ acts as he does with his players because he remembers his own playing days. "When you do something wrong you feel bad enough without the manager hopping on you," he says. "I try to treat my players the way I wanted to be treated when I was a player."

This observance of the Golden Rule, plus his genuine modesty, has made Lopez one of the most popular men in baseball, not only with the players but with practically everyone else he encounters. In hotel coffee shops around the league waitresses rush to give him the best table and special service. In his home town of Tampa, where the White Sox train each spring, the new municipal ball park is named Al Lopez Field.

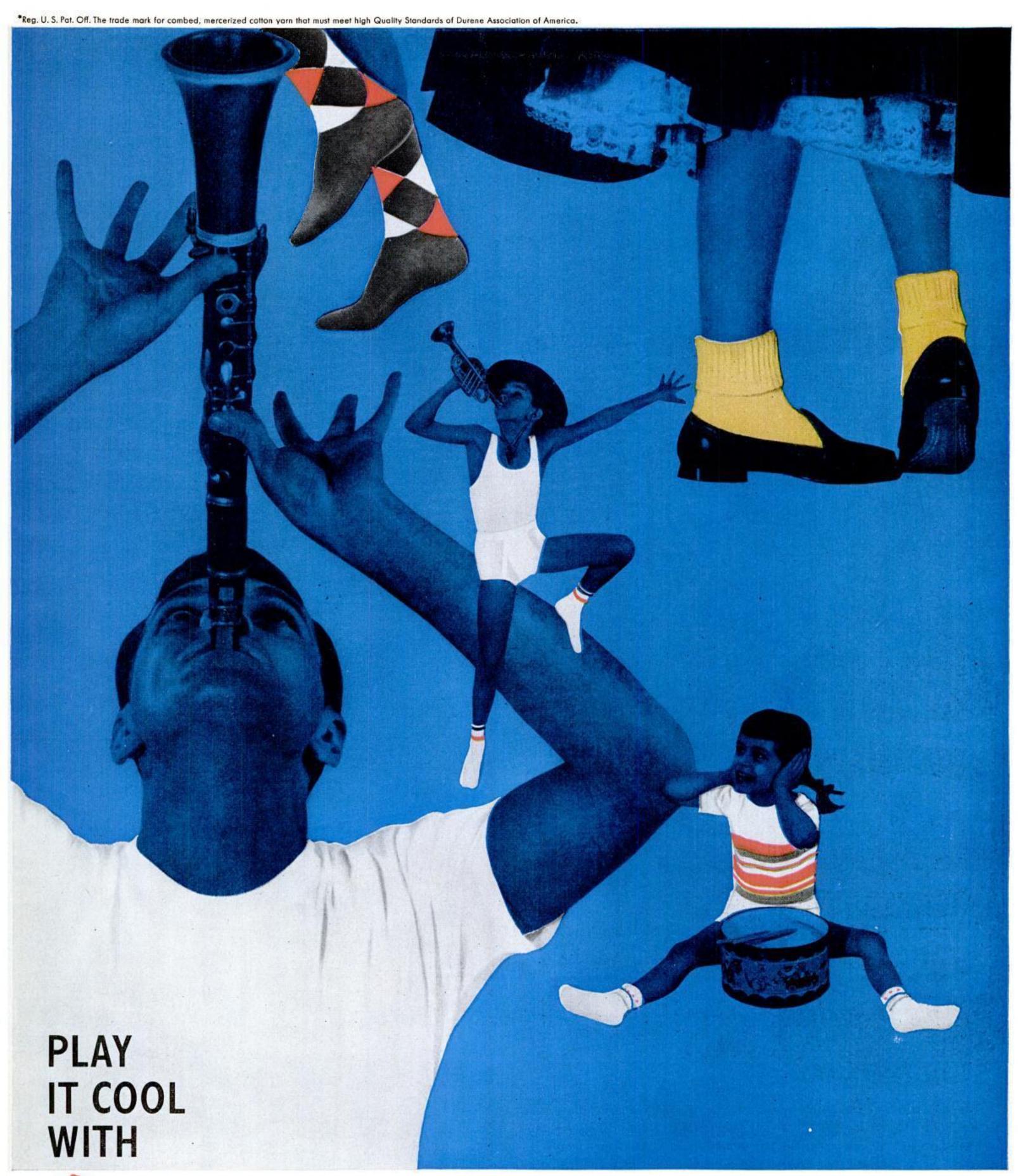
Lopez was born in Ybor City, the Spanish-speaking section of Tampa, 49 years ago. His parents had moved there from Madrid to work in the cigar trade. Al learned to speak Spanish before he knew English, which the neighborhood kids considered a sissy language. He still lives in Ybor City, and during the winters can be found playing dominoes with the community elders.

Al learned baseball on the Tampa sandlots, became a star at Jesuit High and later played with the Class D Tampa club. In 1928 he began his big-league career in Brooklyn. He spent the next eight years there as the Dodgers' first-string catcher, and one of the managers he played for was Casey Stengel. Soon Lopez was running the ball club from behind the plate, calling pitches, moving men and keeping the team on its toes. "I could sit back and nap," says Casey magnanimously.

By the time Lopez left the active list in 1947 he had caught 1,918 games for four clubs, more than any other catcher in the history of big-league baseball, and had earned an unmatched reputation as a

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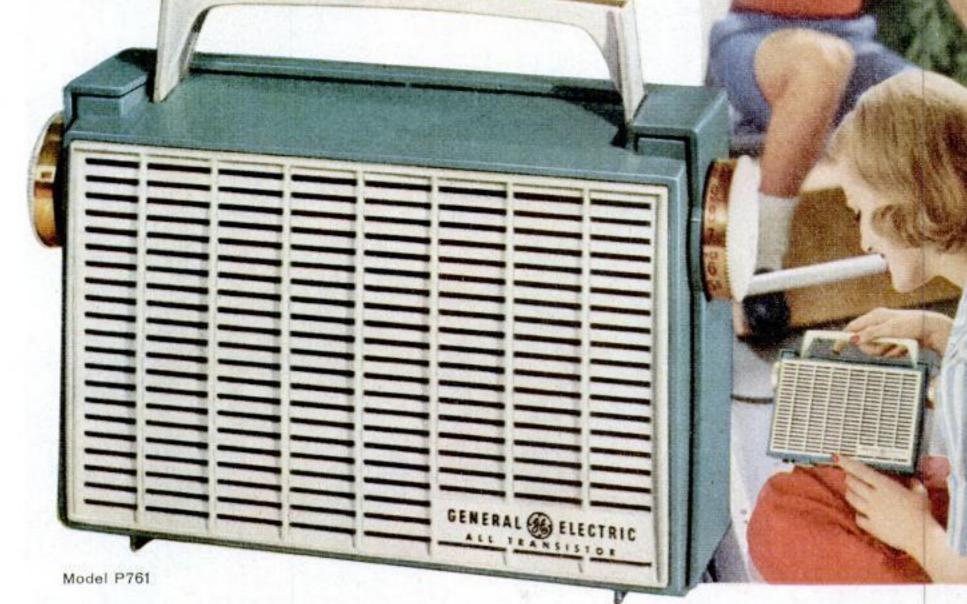
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PLOT TO LICK YANKS CONTINUED

field captain. One third baseman says that Lopez moved him before

every pitch for a full season.

He was especially influential with pitchers. "He nursed you, led you, worried for you—and won for you," says Bill Posedel. "I won 15 one season with Al catching me." Because he was the best "low ball" receiver in the business, pitchers could rear back and throw hard with men on bases without fear that the pitch might go into the dirt and roll to the backstop. They relied on Lopez so heavily that when he was traded to Boston the great Van Lingle Mungo of Brooklyn begged to be sent along with him.

Under Stengel, Lopez got an advanced education in percentage baseball. He learned most of the master's tricks, and one or two of his own. For years he and Cuccinello, who played second base, worked a play that made them seem clairvoyant even to their teammates. With a runner on first, Cuccinello would watch the enemy first-base coach out of the corner of his eye. When he saw him wink, the standard steal sign in those days, Cuccinello would double his right fist along his right leg. Lopez would promptly call for a pitchout, whip the ball to Cuccinello and nail the runner halfway to second.

In 1934 Lopez caught a foul tip on his right thumb that threatened to end his career. Hearing his thumb rip and not wanting to look at it, he quickly put his hand behind his back. When Stengel stomped out and demanded a look, Lopez told him, "You don't want to see it." When the manager insisted, Lopez turned his head away, still afraid to look, and held up the thumb for inspection. When he turned around again Casey was being sick at home plate. The thumb was dangling grotesquely back against the wrist.

Convinced that Lopez' thumb would never be the same again, Stengel began to think about selling him. He promised to send his old friend to a good club—maybe the Chicago Cubs, who were then riding high and paying good salaries. But when the trade was announced, Lopez, along with his sidekick Cuccinello, had been sent

to the down-and-out Boston team.

Two years later Stengel himself wound up in Boston as manager. By that time, Lopez' thumb had healed and once again he ran the club for Casey. Cuccinello was at second and Cooney, a pitcher whose arm had gone bad, was playing the outfield. In 1940, with the Boston team almost in bankruptcy, Stengel took his star catcher aside for a confidential talk. "We can't meet the payroll unless we sell somebody pretty soon," he said. "You and Eddie Miller are the only ones we can get any money for—so we'll sell Miller."

A ticket to Pittsburgh

Lopez passed the word along to Shortstop Miller, who refused to believe him. "They'll sell you before they'll sell me," Miller said, and after some arguing they bet a \$100 suit of clothes on which one would go. That suit of clothes became another item on Lopez' account with Stengel, for when the announcement came it was he and not Miller who was sold. He went to Pittsburgh for \$40,000 and

Catcher Ray Berres, who is now his bullpen coach.

Before Lopez left that night, he and Cuccinello got together for a farewell meal. They had been conspirators and roommates for eight years. Lopez was godfather to one of Cuccinello's children and Cuccinello had been the best man at Lopez' wedding. But the next day, when Al reported to the Pirates in New York for a game at the Polo Grounds, the first person he saw was Cuccinello, in a Giant uniform. He had been traded after Lopez left him the night before. The first time Cuccinello came to bat, Lopez said casually, "Have a good trip down?" Cuccinello grunted, "Yeah," and whacked out a single. In 1951 when Lopez became manager of the Cleveland Indians, he appointed Cuccinello his coach and right-hand man.

In Cleveland, never a tranquil retreat for managers, Lopez took over at a difficult time. The team, made up of established stars and aging prima donnas, was slow afoot and slipping rapidly. In three years it had bounced from first to third to fourth—and failure was

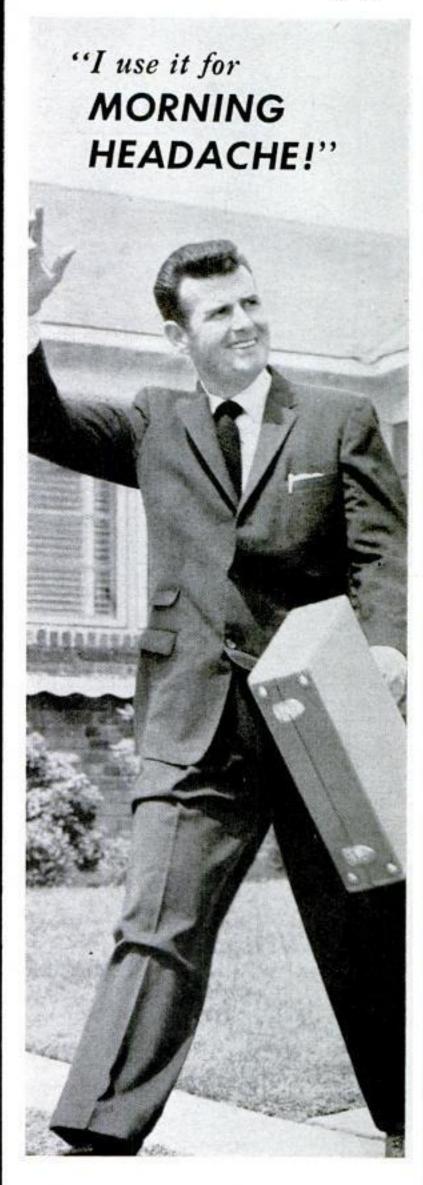
not tolerated in Cleveland.

One of Lopez' first moves was to abolish regular clubhouse meetings. "They're a waste of time," he says. "Half the fellows are asleep or thinking about something else all the time the manager is talking. It doesn't make sense going over the hitters with the whole team. Every hitter's case is different with every pitcher. You wouldn't want Lemon, for example, to pitch the same way to Yogi Berra or Mickey Mantle that Wynn does. They throw different stuff." Lopez met only with the pitcher scheduled to work that day.

Instead of the elaborate list of rules that many managers impose to buttress their authority, Lopez established only three: 1) outfielders must always throw to the cut-off man rather than to a specific base; 2) no player must ever hesitate rounding first base on a single when a teammate is trying to score from second; 3) everybody must For most every kind of pain or ache, BAYER is what millions take, because—

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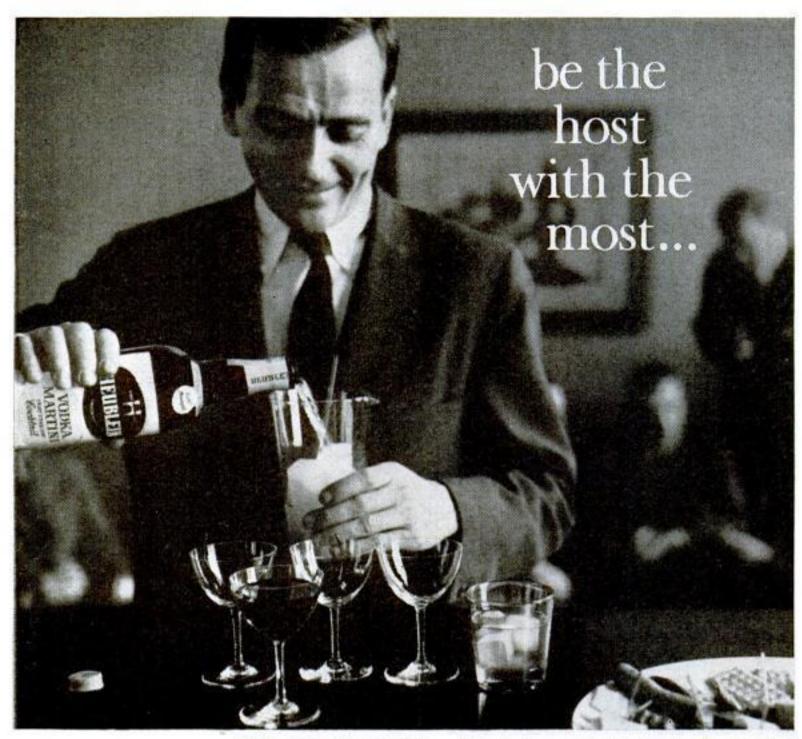


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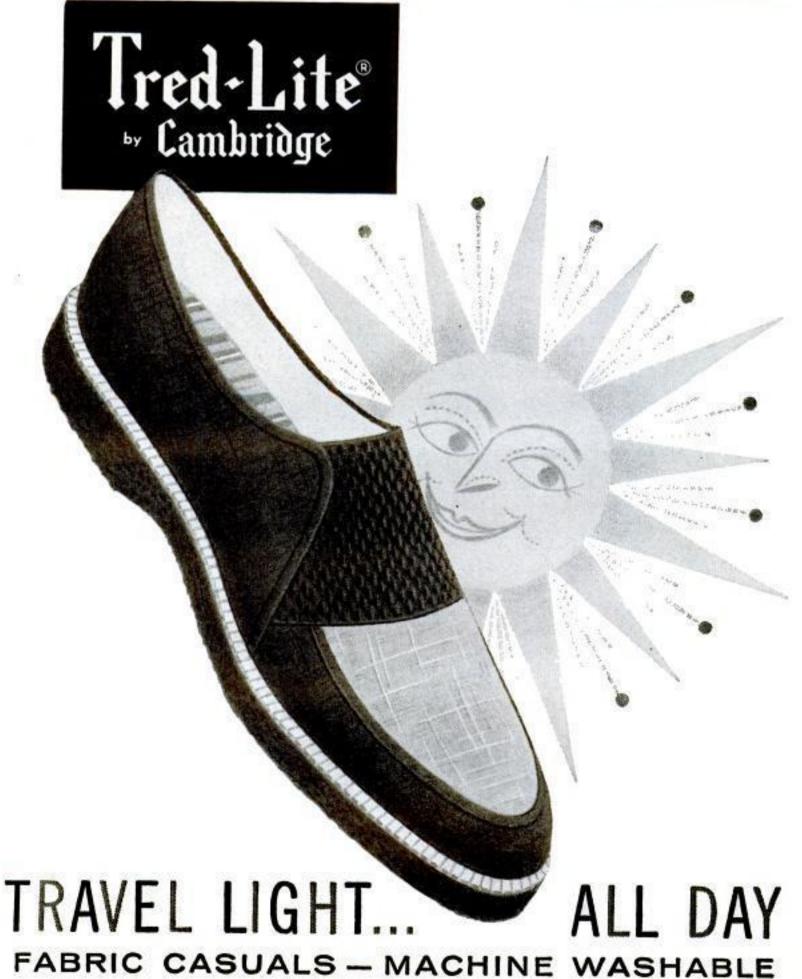


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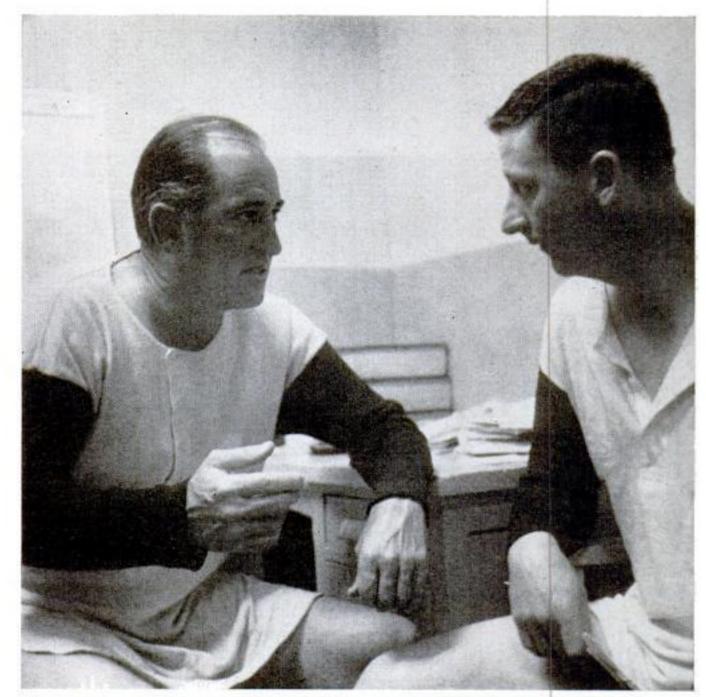
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BRIEFING A PITCHER, Dick Donovan, in clubhouse before a game, Lopez explains weaknesses of opposing batters and how to pitch to them.

PLOT TO LICK YANKS CONTINUED

keep the curfew. Although Cuccinello always happened to be sitting watchfully in the hotel lobby around curfew time, "just reading the late papers," Lopez never gave lectures about his rules. He took it for granted that he would be obeyed. "I figure I'm managing a team of adults," he explained, and almost from the first day Cleveland's veterans responded to this treatment by playing hard for Lopez.

The Cleveland pitching staff, which was already good when Lopez arrived, blossomed under his management. Early Wynn, the meanest man in baseball when he is pitching, says, "Al always had a good reason for everything, so I quit asking questions." In one of the early weeks at Cleveland, Lopez came out to the mound to relieve Wynn. Wynn was so mad at being lifted that he threw the ball into Lopez' stomach and knocked the wind out of him. When he recovered his breath, instead of fining or suspending Wynn, Lopez simply said, "Don't throw at me. Throw at those guys in the gray suits."

Lopez listened patiently to what his players had to say. He heeded his coaches. He did not overmanage or overteach. When a brilliant young southpaw named Herb Score came along he tried to impart a simple principle to him: "Don't throw sliders and change-ups. Your curve and fast ball will get you by. In six years, maybe, go to sliders." In Score's first year up Lopez often left him in the game when he was wild and should have been taken out. It was an investment that would pay off later. He was building Score's confidence.

The year the Yankees lost

OR three years, by keeping his team as relaxed as possible, Lopez kept it snapping at Stengel's heels. When he finally caught Casey in 1954 he had to win 111 games, a new American League recordonly to go into the worst slump of the season in the World Series and lose four straight to the New York Giants.

In 1955 and 1956 the Indians finished second to the Yankees, which the Cleveland fans considered downright disgraceful. One day, after the hometown bleacherites had mercilessly ridden injured Third Baseman Al Rosen all during the game, the usually even-tempered Lopez boiled over. "It's bush!" he said angrily to a newsman, using the ball player's harshest term of derogation. "I've never seen anything so bush—and you can put that in your paper!"

Toward the end of 1956 the Indians came home from a road trip leading the league by one game. Only 17,000 people turned out to watch the first game of the home stand, which the Indians lost. The next day there were only 5,000 fans in the stands. "I knew then that I had to get out of there," Lopez says.

When he called his players together and told them he was resigning there was stunned silence. As soon as Al had left the clubhouse Pitcher Bob Feller jumped up and suggested using the players' kitty -about \$400 built up over the season in small fines-to buy the

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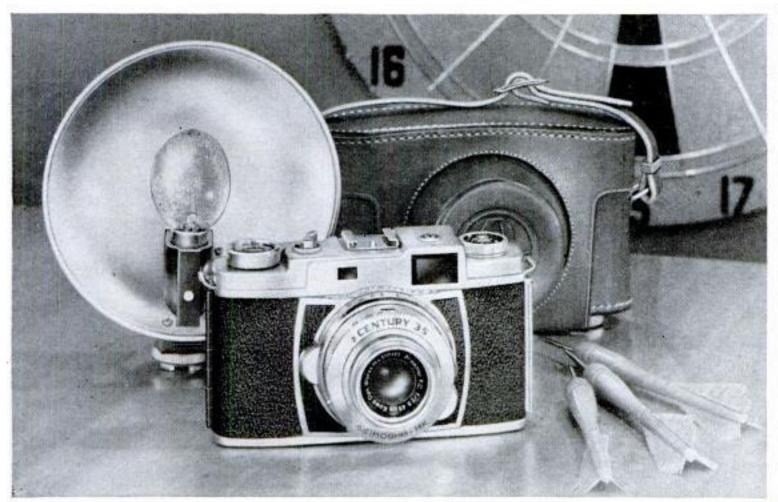
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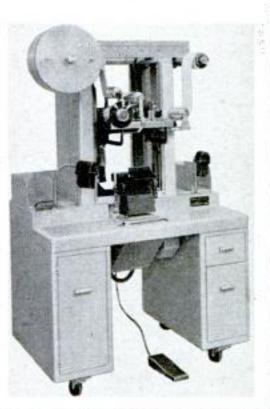




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PLOT TO LICK YANKS CONTINUED

departing manager a gift. They bought him the best set of golf clubs they could find, a rare tribute from a group of pros accustomed to watching managers come and go with total indifference. Several weeks later Al Lopez was named manager of the Chicago White Sox.

In Chicago he took over a club that everybody said was on the way down. It was fast and scrappy but addicted to running out of gas during what became known around town as the annual "June swoon." The departing manager, Marty Marion, cracked that Lopez had better bring his great Cleveland pitchers along with him. But Lopez did very nicely with the pitching that was available. His staff last year pitched more complete games than any other in the league and had the second lowest earned run average. At the end of the season Lopez finished in his usual place, second to Stengel. The White Sox had not finished so high in the standings since 1920.

In Cleveland, Lopez had been typed as a "stand-and-slug" manager, but this was not his natural style of play. In Chicago he had the kind of material he prefers. "I like a running club," he says. "We bunt. We steal. Over in Cleveland you just sat on the bench and waited for someone to slug the ball. I like being in the ball game." But although his strategy has changed, his approach to individuals is the same. He praises rather than belittles, suggests rather than commands. The improvement in Chicago's pitchers was mostly Lopez' doing. He persuaded Bob Keegan to slow down his delivery and thus improve his control. He talked Dick Donovan into not relying exclusively on his slider in a clutch. "Every hitter in the league knows it's coming and they lean in waiting for it," Lopez said. "Throw them a fast ball instead." In the next month Donovan bounced inside fast balls off the plastic skull caps of two hitters who were leaning in to hit his slider. From then on, when he did use his slider, it was far more effective.

"Lopez is sharp, real sharp," Donovan says. "I couldn't beat Cleveland. So I went to him and said, 'How do I get Colavito out?' Now, most managers say, 'Pierce gets him out high inside,' or 'Keegan gets him out with a low sinker.' But my name's not Pierce or Keegan. My name's Donovan. How do I get Colavito out? Well, Lopez is different. He ticks things off, bing, bing, bing. No fooling around. 'You do four things,' he says. 'You throw high and tight, then take something off the change-up, then. . . .' Well, I'm not giving all my secrets away." With Donovan's new knowledge Colavito couldn't buy a hit off him last season, and Donovan beat Cleveland three times, once on a one-hitter.

Last winter Lopez traded his two big power hitters, outfielders Larry Doby and Minnie Minoso, who between them had driven in 182 runs in 1957. In their place he got pitchers and line-drive hitters. He was promptly criticized for trying to turn back the clock to the days of the dead ball when Chicago's "Hitless Wonders" could win a pennant on speed, pitching and defense, plus a run or two per game. Lopez has ignored the critics. His new club should be highly effective in its home games in spacious Comiskey Park. More to the point, in their present form the White Sox are tailored to shoot down Charles Dillon Stengel.

There is nothing personal about Lopez' campaign against Stengel. He has the highest respect for Casey, and the feeling is mutual. When Casey opened a bank in Glendale, Calif. last winter, Al Lopez was one of the first depositors. But he is determined that his next deposit in Stengel's bank will be a check from the 1958 World Series.



FRIENDLY RIVALS, Lopez and Stengel engaged in off-season horseplay at major league meeting in 1954, the year Al won and Casey was second.



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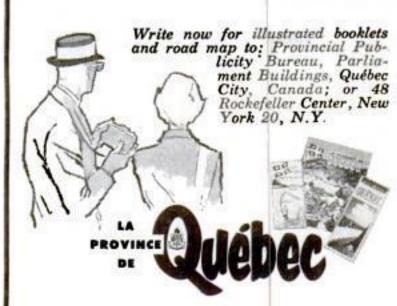
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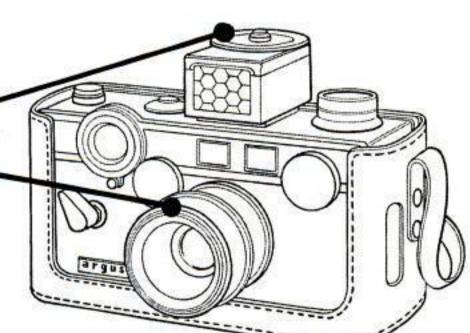


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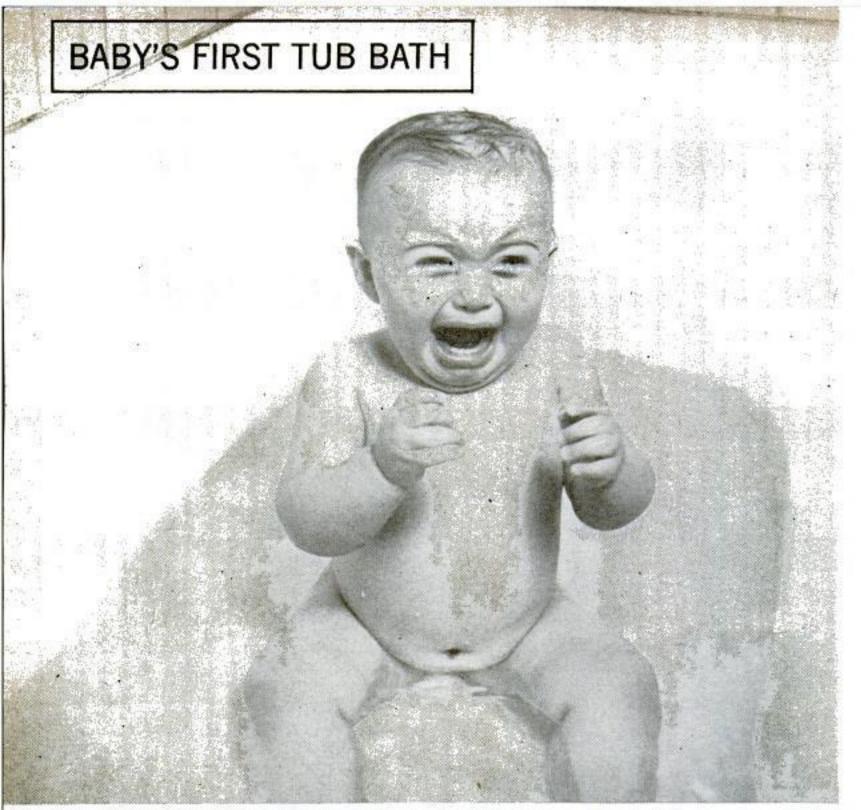
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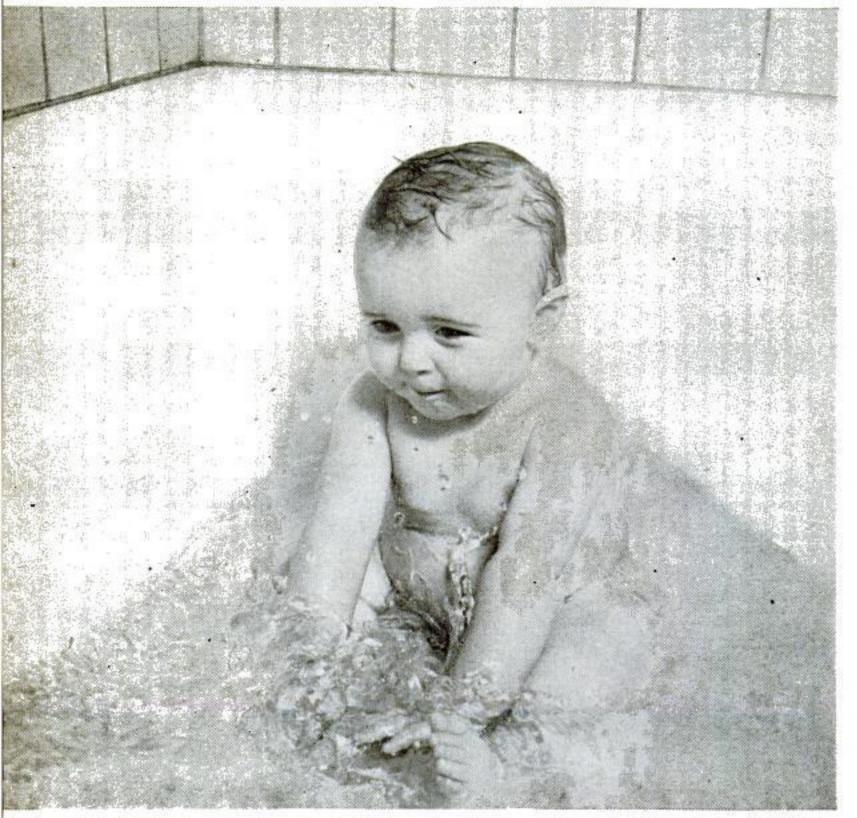
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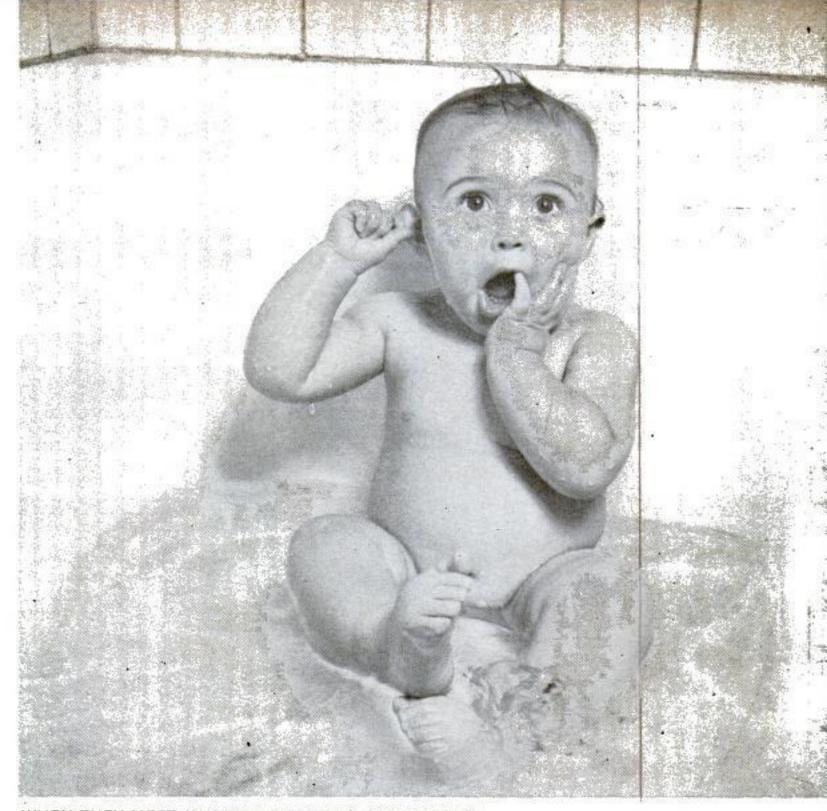




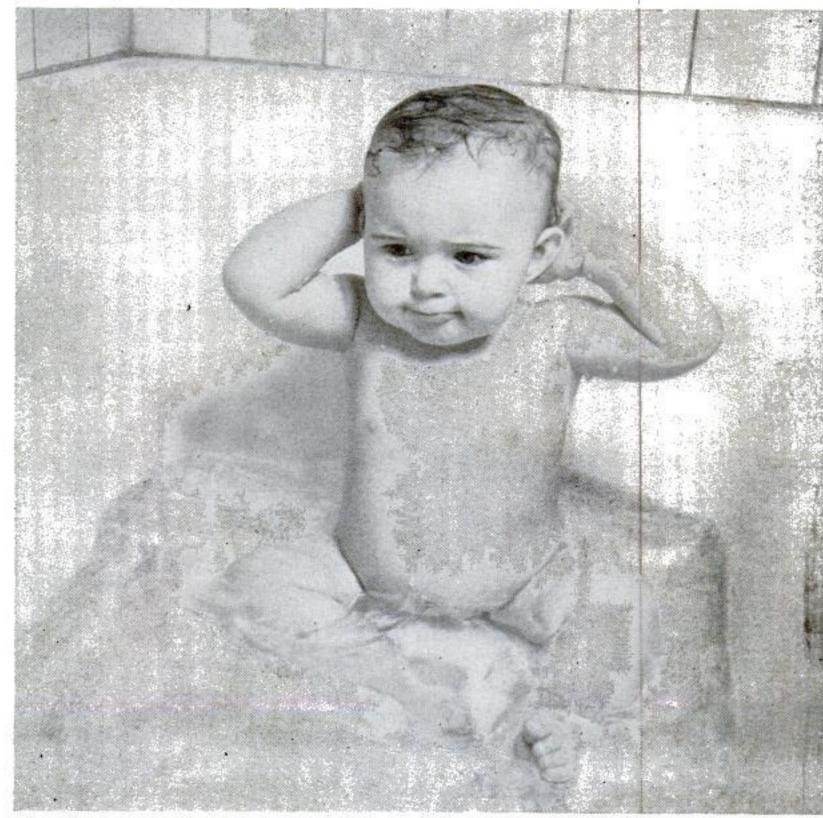
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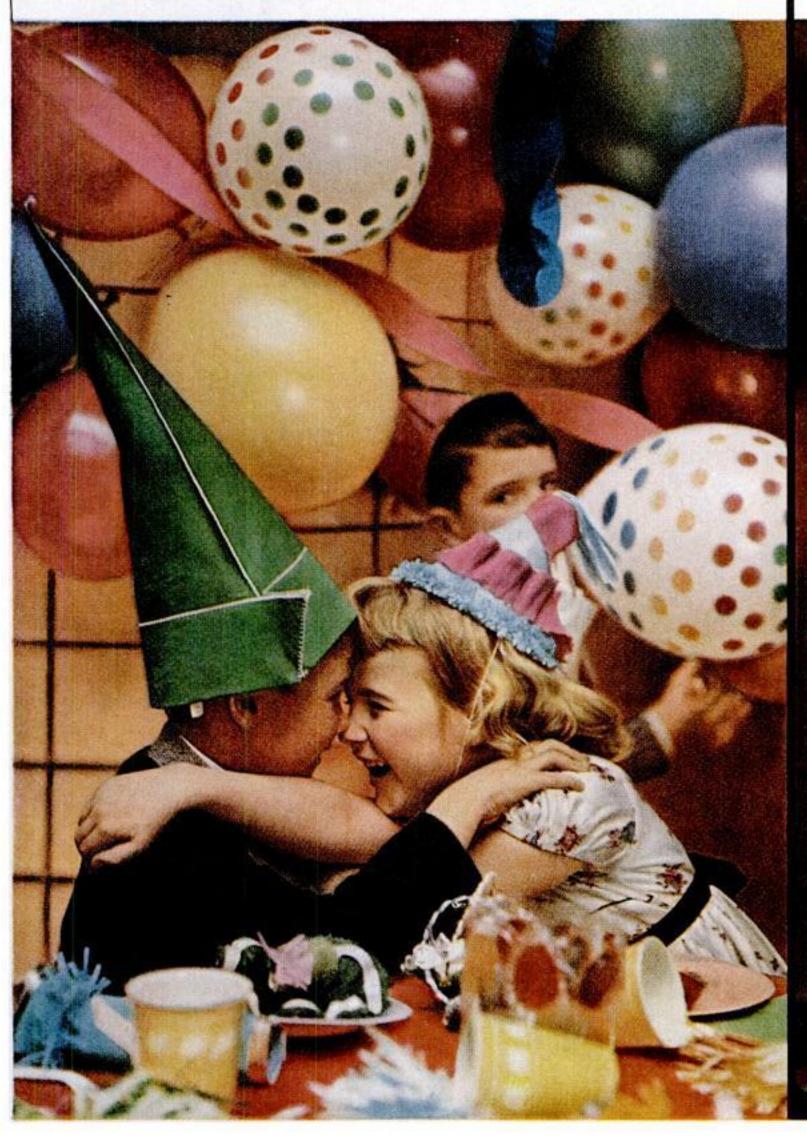


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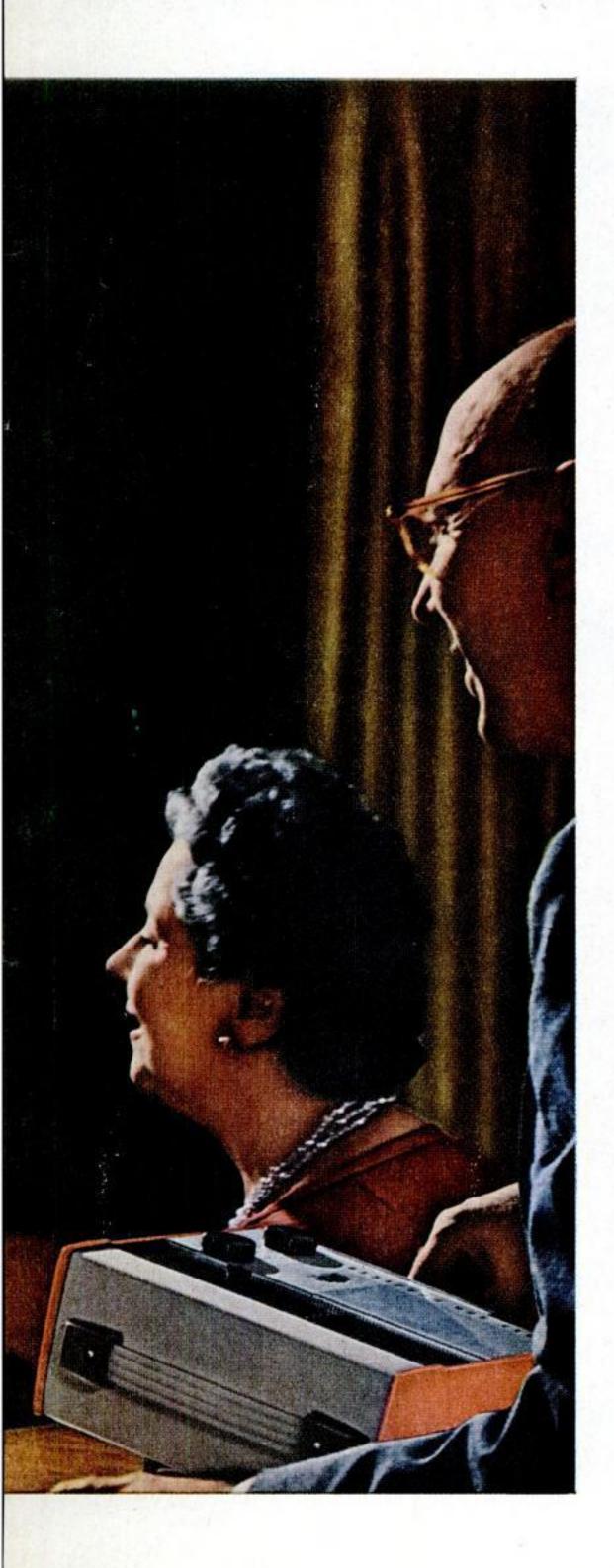


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Color slides cost only pennies more than black-and-whites—with world-famous Kodachrome Film or fast Ektachrome Film. Processed through your dealer.

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Labels before you leave.
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In Canada, too.

SCRUB SET

1. CLEAN! Medicated Scrub Soap goes deep to rout out clogging grime, hardened oil and make-up. Special oatmeal ingredient stimulates surface circulation, helps rid skin of deep-seated impurities.

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3. MEDICATE! Medicated Blemish Cream promotes healing of blemishes all night long. IMPORTANT: Use your Scrub Set faithfully, every day, following each step exactly

... for a clearer, sensationally more attractive complexion. \$2.85.

For beauty the modern way

Dorothy Gray



SULTRY GRISELDA (Tina Louise) searches the family's dug-up acres for her husband, who is down

in one of the hundreds of holes on the place digging for the gold grandpappy hid during the Civil War.

Odd Folks and Fun in God's Acre

Erskine Caldwell's novel, God's Little Acre, written in 1933, has finally come to the screen, bursting with lusty laughter. It tells of smoldering Griselda (left) whose ripply walk sets strong men brooding. Her father-in-law, Ty Ty Walden (below), spent 15 years digging holes in his farm in hopes of finding a hidden cache of gold, fearful that it might turn up on the acre—God's acre—whose yield he has dedicated to the church. There is Pluto Swint who pants for Ty Ty's daughter, Darling Jill, and Darling Jill who really loves an albino.

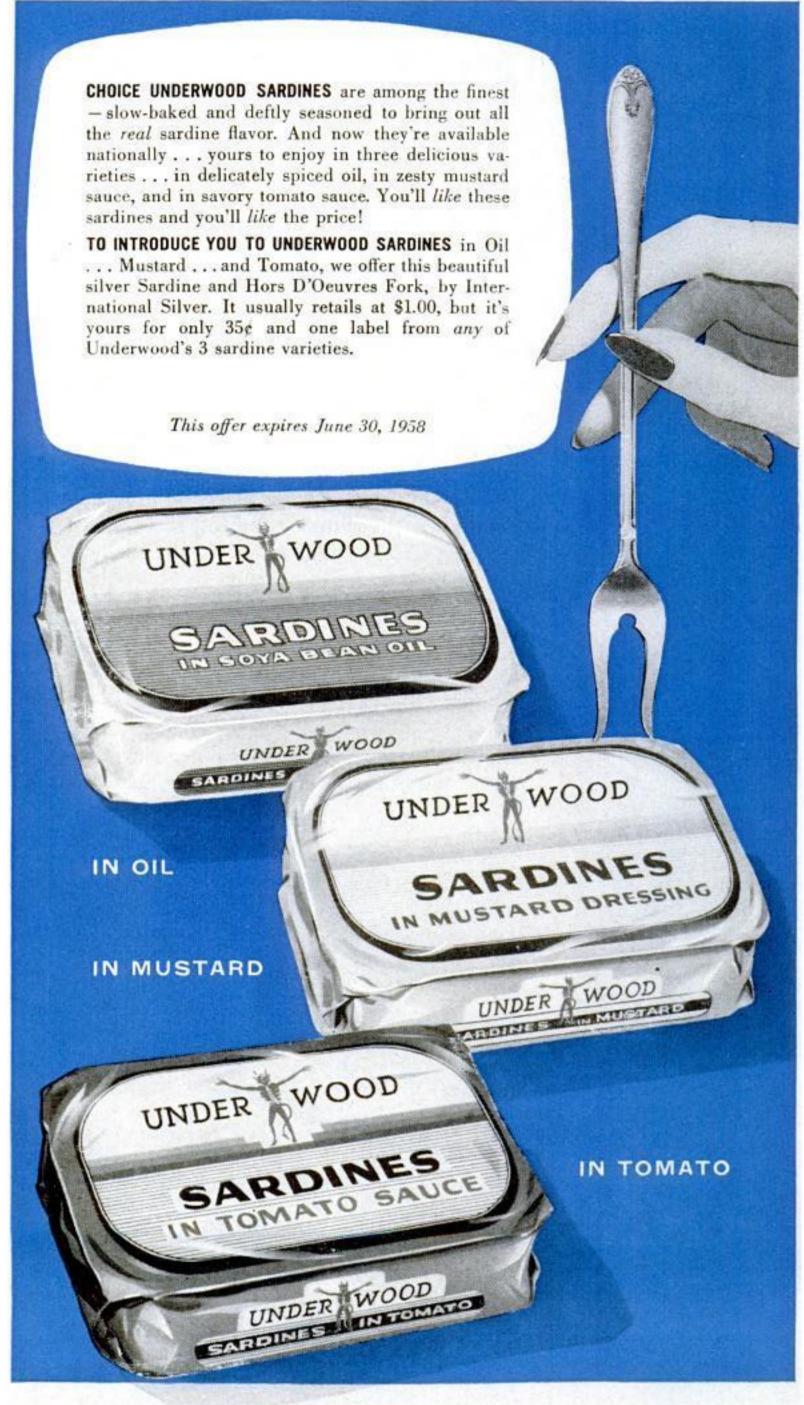
As a novel God's Little Acre sold nine million copies, the all-time record. It was accused of being obscene in New York, Philadelphia and in Boston. And in Boston the court held it was obscene. It was supposed to be too hot for the movies to handle.

But handle it they have—and well. As made for United Artists release by Director Anthony Mann, the film steps gingerly at times and the evil ones get their comeuppance. But the book's spirit remains and the movie emerges a funny story of passion in cotton-picking land.



SLY TY TY (Robert Ryan) changes the cross that marks God's acre lest the gold be found in first one.

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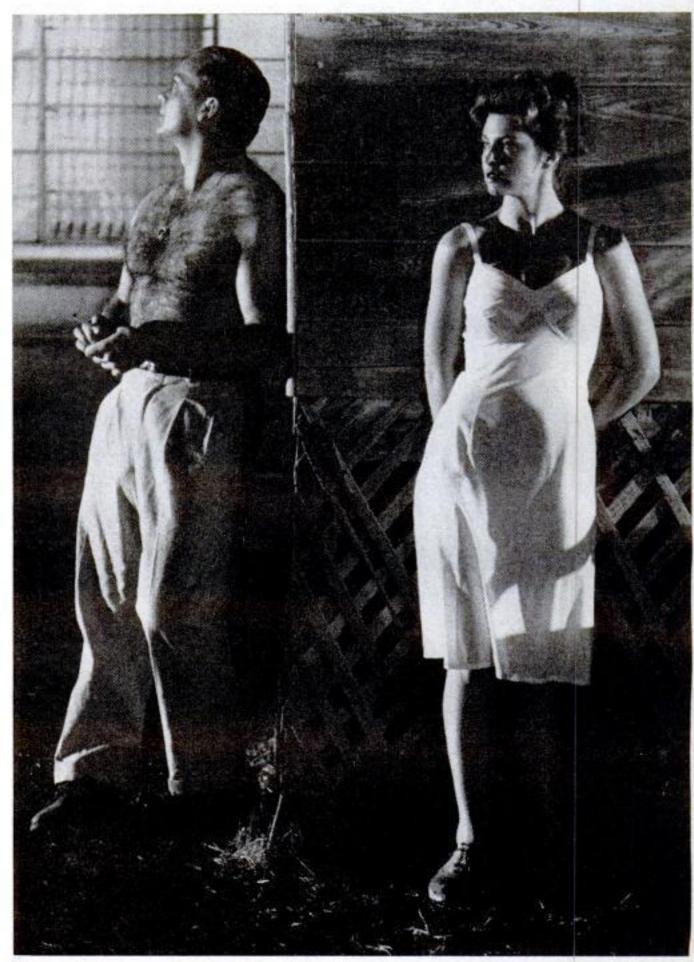
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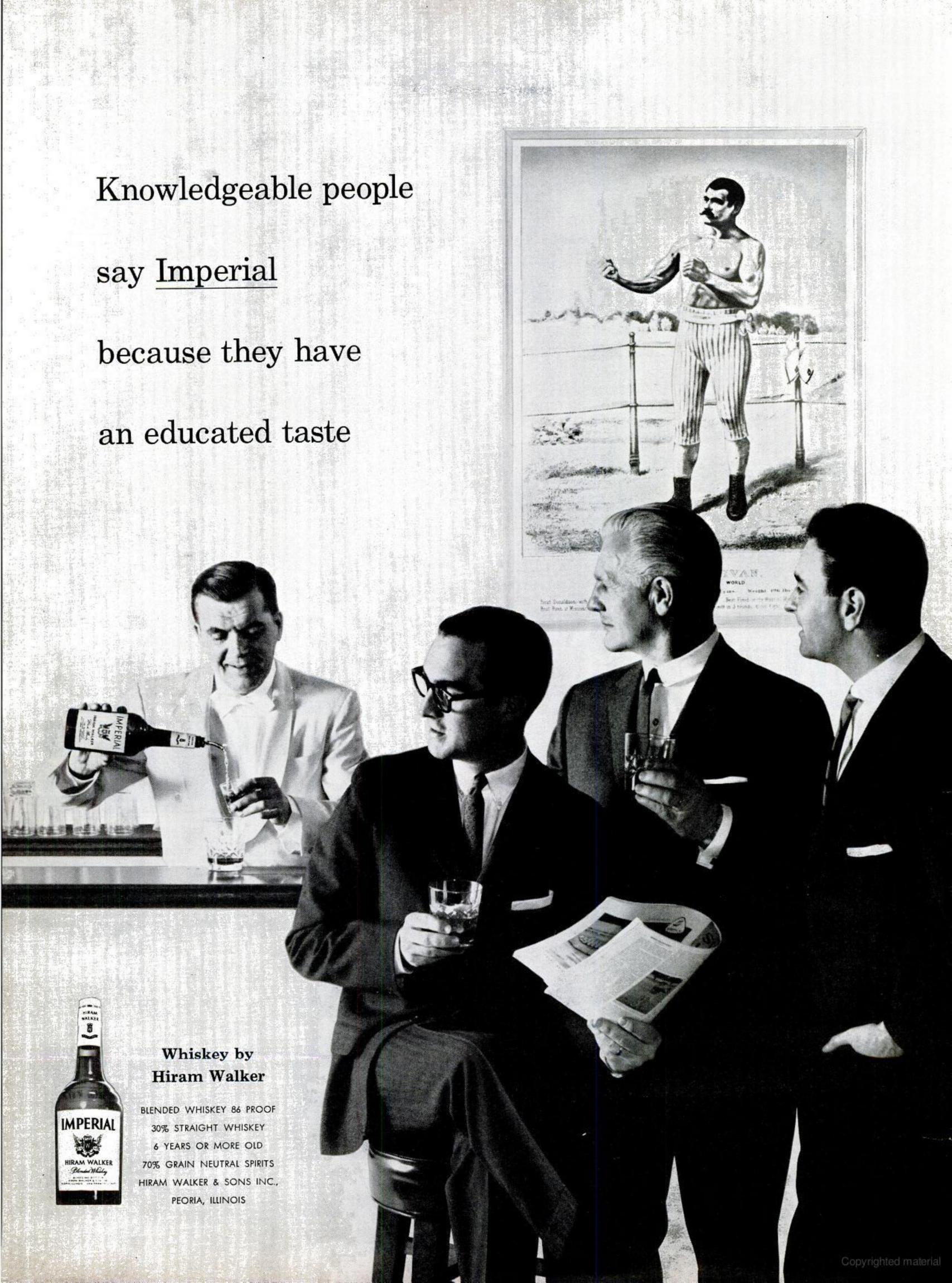
GOD'S ACRE CONTINUED



AN AWED ALBINO (Michael Landon), kidnaped by Ty Ty who thinks he can dowse for gold, sits while Darling Jill (Fay Spain) gives him the once-over.



A TEMPTED PAIR, Will Thompson (Aldo Ray) and sister-in-law Griselda slip out at night and meet but recall their marriage vows in nick of time.



La Choy Decial

on New Lint-free **Kitchen Towel**

• Dries dishes in half the time. Made of specially treated de luxe Cannon lint-free terry cloth. Attractive modern



TAKE ADVANTAGE OF THIS OFFER NOW!

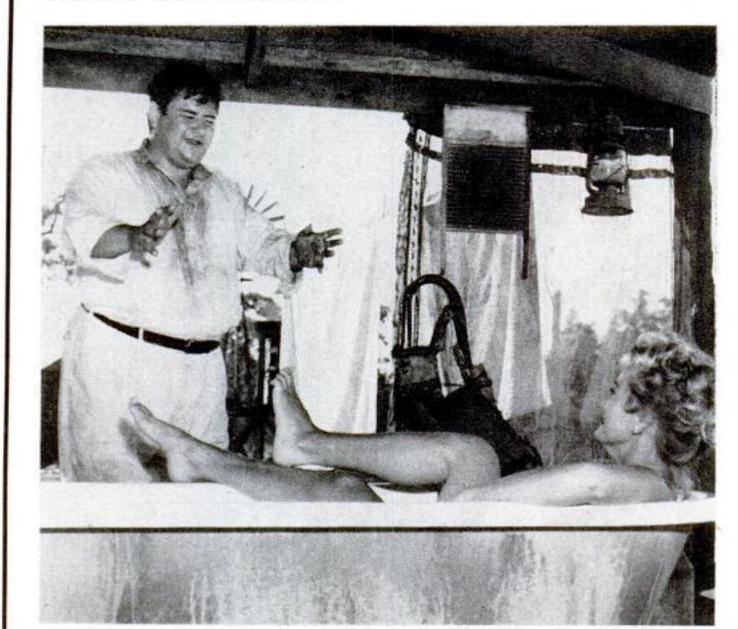
• Send one label from any of the 19 delectable La Choy Chinese Foods -with \$1.00 and your name and address-to La Choy, Box 31, Detroit 31, Michigan. We'll send you two handsome kitchen towels. (Offer not good in states where prohibited by law)

America's Best-Liked, Finest Quality Chinese Foods

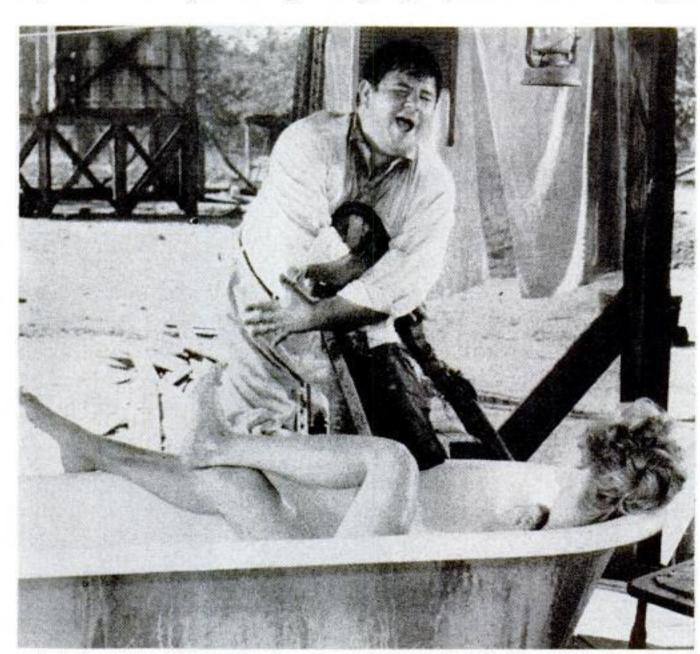


FINEST CHINESE FOODS

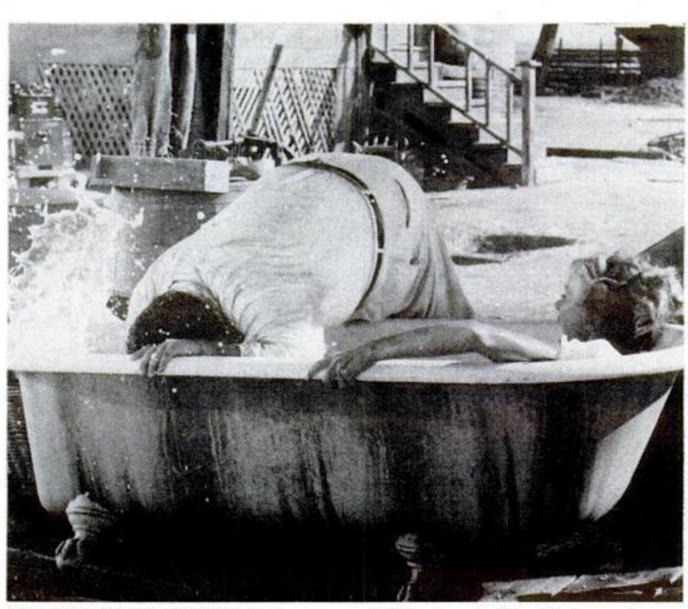
GOD'S ACRE CONTINUED



FILM'S HILARIOUS HIGHPOINT comes as Pluto Swint (Buddy Hackett) finds his Darling Jill bathing at backyard pump. She makes him close eyes.

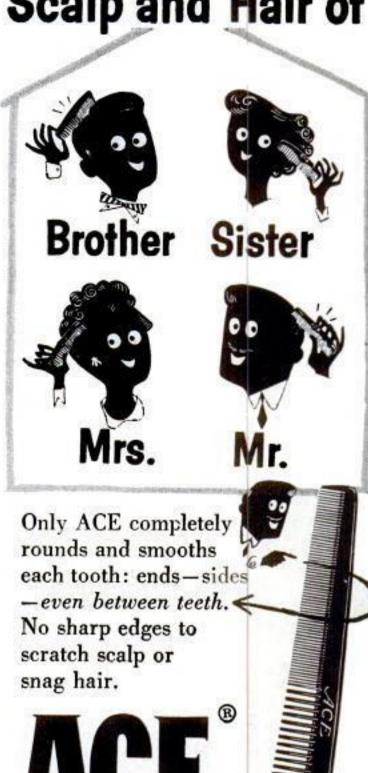


TRICKING PLUTO, Darling Jill directs his approach, now to right, now to left. But as he swoops to embrace her he finds himself hugging the pump.



IN CENSORED FINALE Pluto trips and falls in tub. But bit is no longer in movie. To make scene more acceptable to censors, producer snipped it out.

ACE Takes Care of Scalp and Hair of





















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NOTHING GOES WITH SPRINGTIME LIKE A BRIGHT NEW CHEVY! Here are cars

to rejoice in ... sports-minded, fun-hearted and beautiful as all outdoors. The way they perform, ride and handle makes for the happiest driving you've ever known. Got spring fever? Trade it for that Chevrolet feeling!



There's something about these new Chevies that was made to order for the warm, wonderful days ahead.

You can see it in the eagerness of their low-thrusting silhouettes. You can feel it in the spirited way they take to an open stretch of highway, in the nimble way they negotiate a winding country road.

These are cars to rejoice in—the surest, happiest cure ever invented for an oldfashioned case of spring fever. And the treatment starts with your first close-up look at the gull-wing glamor of that all-new Body by Fisher.

Every one of these new Chevrolet passenger cars is lower, wider and more luxurious in every detail. And every clean-etched line has a freshness you'll find on no other car in Chevy's field.

Once you're behind the wheel you'll find plenty of other exclusives that make driving more restful and zestful. Give some rein to the radically new Turbo-Thrust V8,* for instance, and see how it loves to shrink the miles out where they're long and lonesome. Or follow your wanderlust down a dipping backwoods road—and feel the putting-green smoothness of Chevrolet's new kind of ride.

Your local dealer will be glad to fill you in on all the details-including prices as low as Chevy's roofline! . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

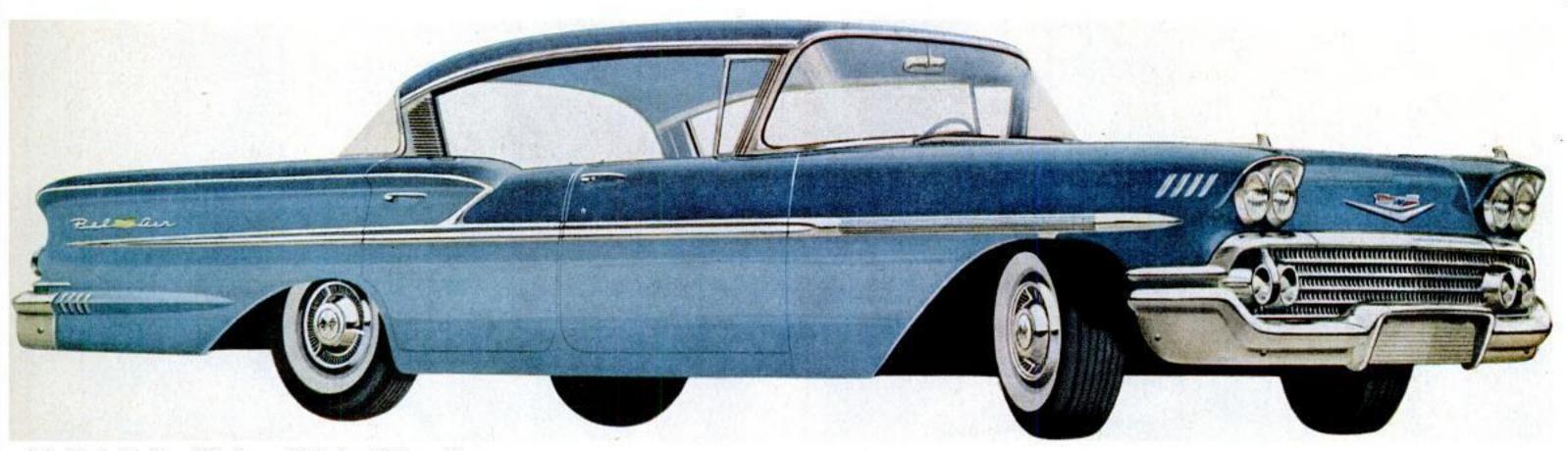
*Optional at extra cost.



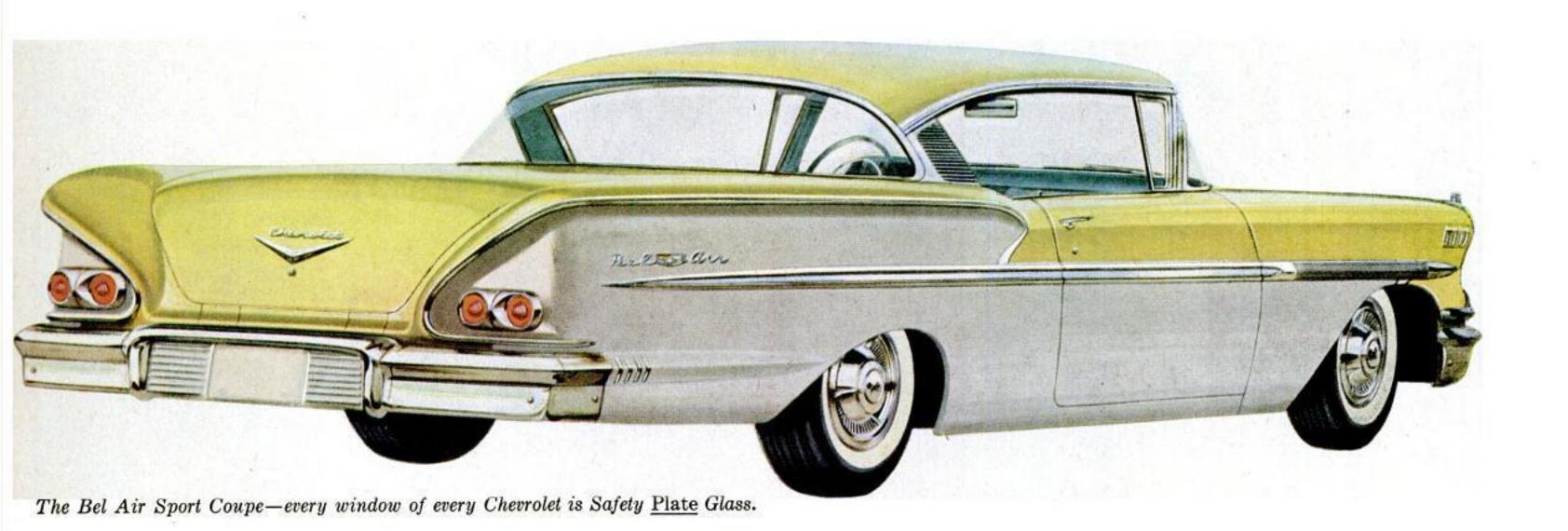


The Impala Sport Coupe—only Chevy's got this kind of gull-wing glamor!





The Bel Air Sport Sedan-Body by Fisher, of course.



The Impala Convertible—supremely smart . . . superbly appointed.



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just as Italian children might be eating it near Rome.
Grown-ups love it, too...for lunch, for dinner, for company snacks. And it costs only about 14¢ a serving! Get some today.



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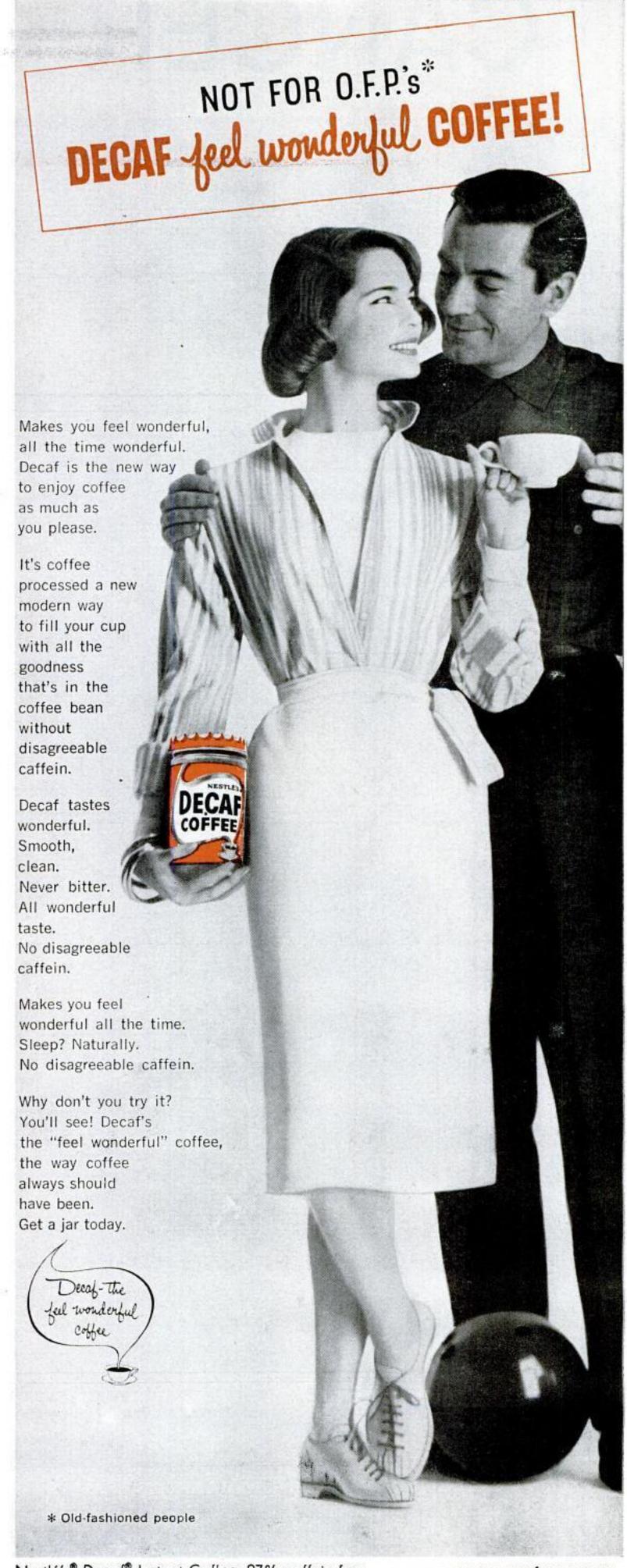
IN 1955 PICTURE ANN WOODWARD WAS HAGGARD WITH GRIEF

A WIDOW COMES HOME

A face out of a tragic past reappeared on New York's society scene a few days ago. Ann Woodward had emerged from a long seclusion spent largely in Europe. On a night over two years ago she had shot and killed her wealthy, socially prominent husband, William Woodward Jr., mistaking him for a prowler as he walked through their Long Island home (Life, Nov. 14, 1955). The ensuing ordeal had left Mrs. Woodward, once a pretty and vivacious actress, haggard beyond her 39 years (above). Cleared by a grand jury of criminal blame in her husband's death, she had gone to Europe to mend her shattered life. Now she had come home, giving evidence (below) of time's healing powers.



BACK IN SOCIETY Mrs. Woodward (left) sits with her friend Mrs. Cornelius Vanderbilt Whitney at the April in Paris ball in New York's Waldorf-Astoria.



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CANCER-ON BRINK



OF BREAKTHROUGHS



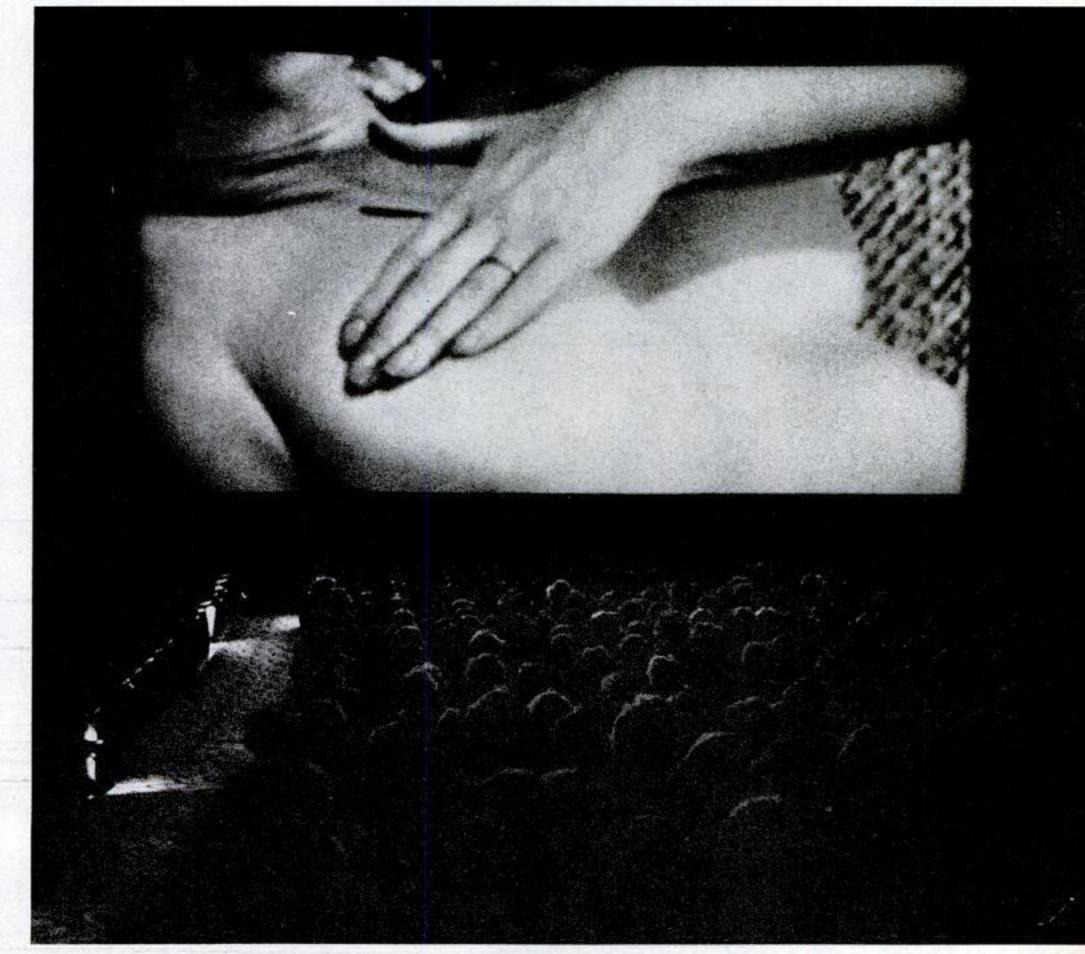
Already saving one victim in three, science forges stupendous arsenal of new weapons

It is a bad way to die and its name has long struck fear in human hearts. Fifty years ago a diagnosis of cancer was literally a sentence of death. No longer is that true, but in 1958 it will kill 250,000 Americans. The insidious disease, its processes not yet thoroughly understood, is still defined vaguely as a malignant, uncontrolled growth of cells that spreads until it strikes a vital organ and causes death. In 1968, and even in 1978, it may still be killing vast numbers.

But within the lifetime of men living today the devastation will slacken. In fact, if all the tools and techniques known today could be put into universal use overnight, one of every two victims could now be fully cured. Already these methods save one in three. And even more hope is seen by scientists in the laboratories. "I'm glad to be alive these days," says Dr. John R. Heller, director of the National Cancer Institute. "I've spent many years in cancer research. Now I believe I will see the end of it. We are on the verge of breakthroughs."

The facts about cancer are entangled in superstition and rumor. False news of miracle cures are always on the wind. As victims lose faith in medical help, as many as a fourth of the gravely ill fall prey to deluded or dishonest quacks. Yet these cases, however pitiful, are less a cause of concern than early-stage cancer cases who turn away from the truth. Last year Mrs. Mary Dowdall (*left*) of New York City found a small lump in her breast. Fearing surgery, she did not see a doctor right away. She felt fine. But the lump did not go away. After six months she went to a cancer hospital where the lump was found to be malignant. Swift surgery removed it and, to her surprise, doctors have told her chances for total cure look good.

To multiply cancer cures, gigantic radiation machines like that on LIFE's cover are just getting into general use. Scientists have ventured into bold experiments with human volunteers (next page). And in an unprecedented peacetime program for medical research, the U.S. has thrown \$25 million into a scientific dragnet (pp. 110, 111) to test out 40,000 chemicals, gambling heavily that among them they will be able to discover some new drug cures.



afield Hospital, Mary Dowdall tells son she suspects cancer but is resigned to fate. She did have cancer, but surgery gave her good chance for cure.

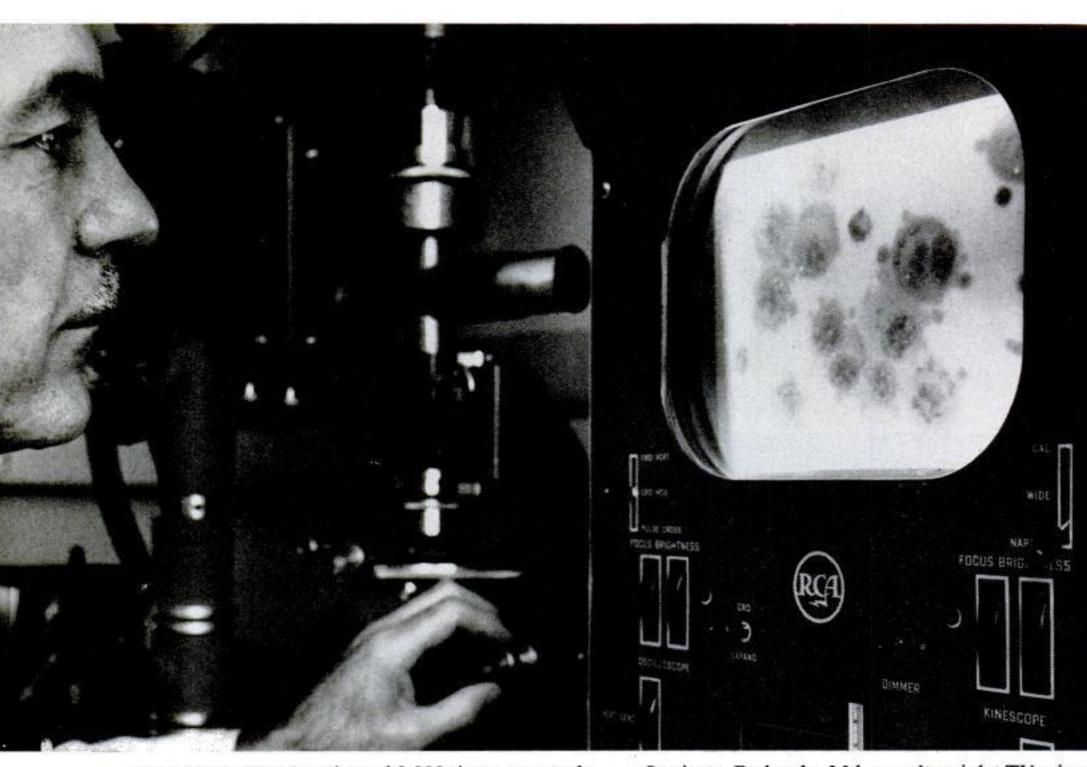
Elmhurst, Ill. watch American Cancer Society's film on detection routine, *Breast Self-Examination*. In seven years 6.5 million women have seen it.

Latest tools, daring tests to uncover the

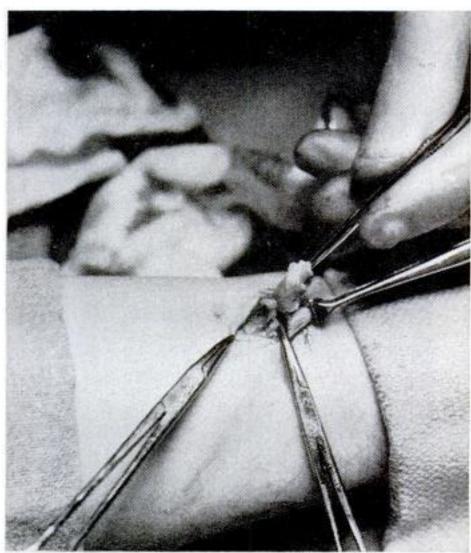
Laboratory scientists are now closing in on what cancer is and why it starts. They know cancer actually is not a single disease but a group of diseases whose common characteristic is wild cell growth. For these diseases they have found several definite and suspected causes (opposite page). Most of the research that produces such discoveries is paid for by the government-supported National Cancer Institute and by groups like the American Cancer Society and the Damon Runyon Fund.

Powerful machines (below) are ferreting out the ways in which a cancer cell differs from a normal cell. It is usually larger and oddly shaped. It seems to need less oxygen than a normal cell and use body nutrients differently.

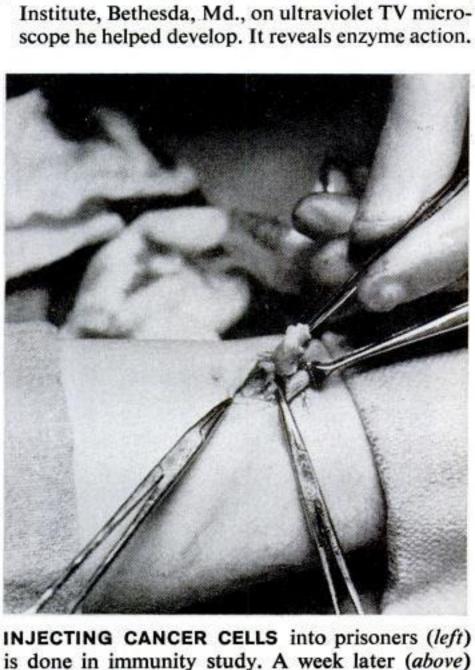
Most important, something seems to have gone wrong with the cancer cell's nucleus, which is why it multiplies out of control. Some experiments indicate this aberration is caused directly by radiation, chemicals or other irritants. Other experiments suggest that these agents merely act as triggers for a cancercausing virus, which then takes over control of the cell. If this turns out to be so, an immunizing vaccine or therapeutic serum may prove possible. By injecting live cancer cells into the arms of convict volunteers in Ohio State Penitentiary, scientists from New York's Sloan-Kettering Institute have shown that the healthy body has a natural resistance to cancer and that greater immunity can be induced.

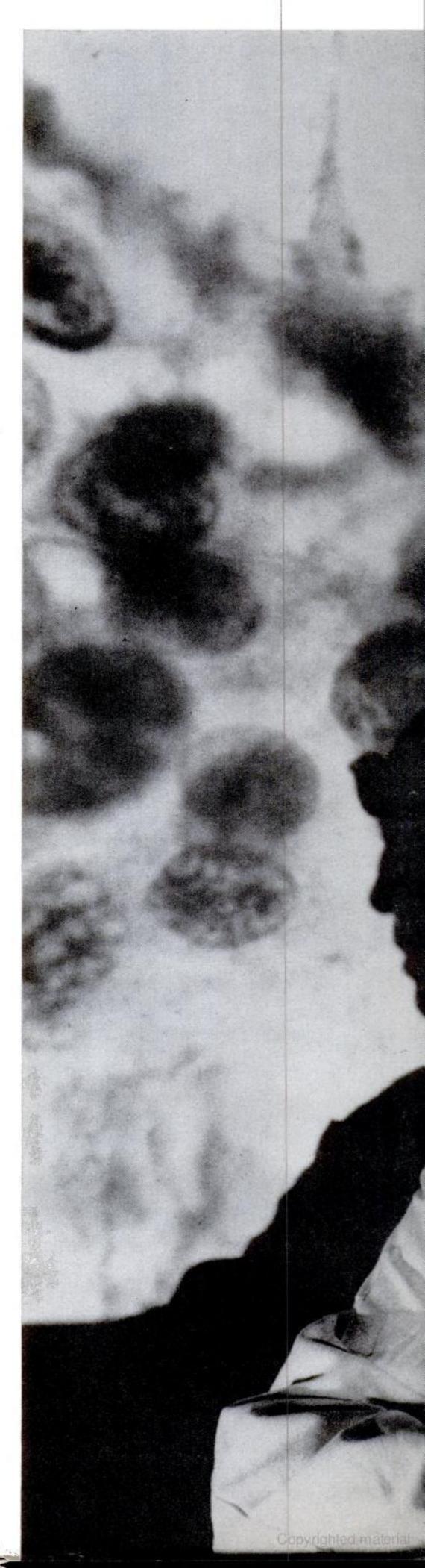


DISEASED CELLS, enlarged 2,000 times, are studied by Dr. George Z. Williams at National Cancer

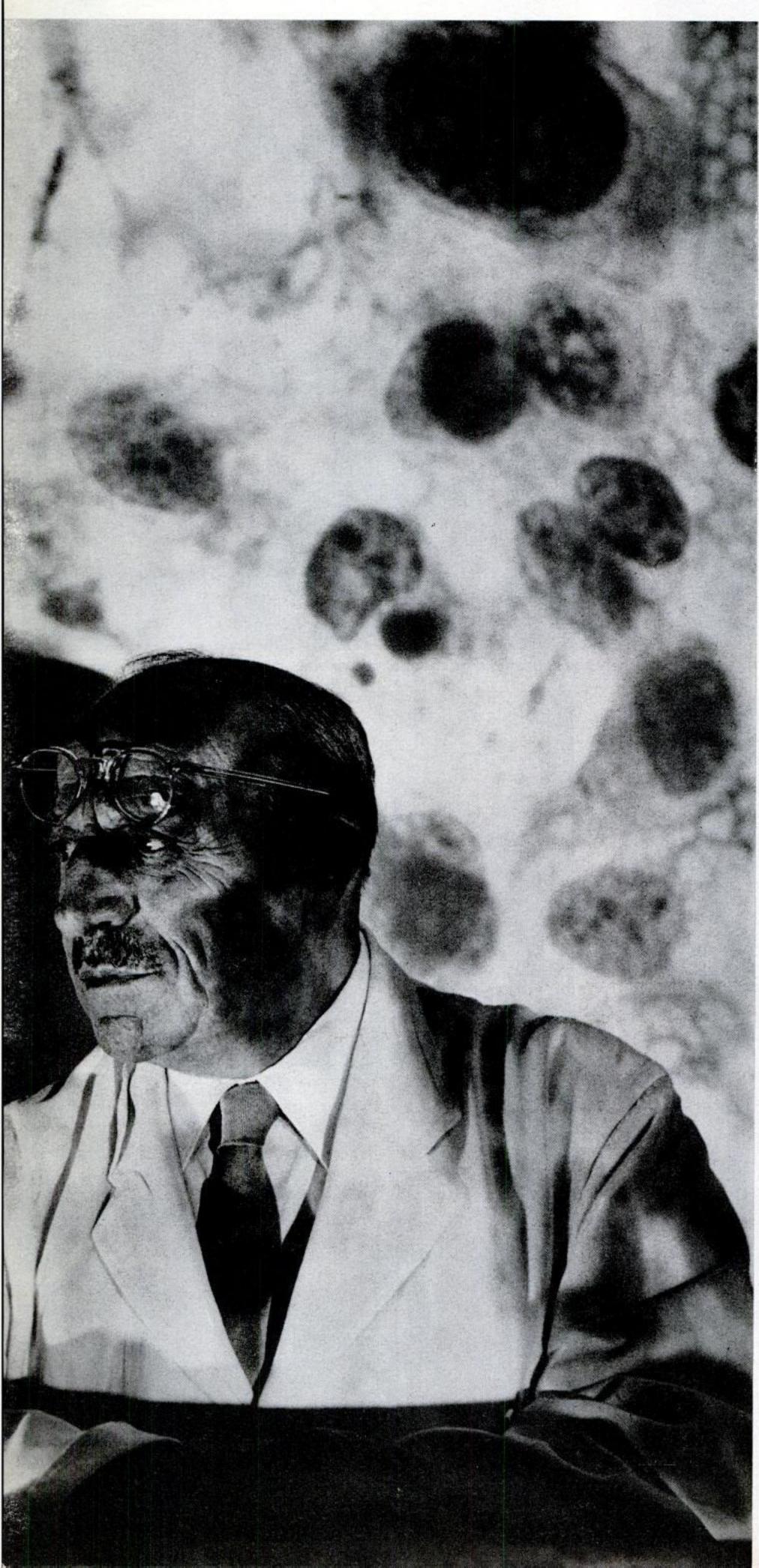


resulting lump is removed from arm. Injection repeated later showed resistance to cancer had risen.





secrets of malignant cells





MEDICAL GOATS are used by Dr. Sergio De Carvalho (*right*) of Rand Development Corp. in attempt to make an anti-cancer serum by injecting goats with viruslike particles from human cancer.

KNOWN, SUSPECTED CAUSES OF CANCER

RADIATION can cause malignancies in persons overexposed to sun for years, less often in those who get huge single exposures or many repeated smaller doses of atomic radiation or X-rays.

CHEMICALS, including hundreds of tars, dyes and metallic compounds, can cause cancer after long contact. Public is rarely exposed to them.

IRRITATION, as from badly fitted dental plates, hot stems of clay pipes, gallstones, can eventually cause cancer. Single injuries cannot.

SMOKING has been cited as a causative factor in lung cancer by U.S. Public Health Service, American Cancer Society, the British government. According to American Cancer Society statistics, heavy smokers die of lung cancer 23 times more often than nonsmokers. Tars from smoke produce cancer on skin of animals and proliferative cell changes in the lungs of dogs, mice and rats.

AIR POLLUTION is a suspected cause of lung cancer, which has slightly higher rate in city.

VIRUSES are subject of intense current research. In animals, 15 viruses cause cancers like those in humans. Viruslike particles have been found in human cancer tissue but are not yet proved definitely to be cause of human cancer.

HEREDITY can directly transmit a few rare types. In some other types people probably inherit slightly lowered resistance to the disease. But in most types heredity is not major factor.

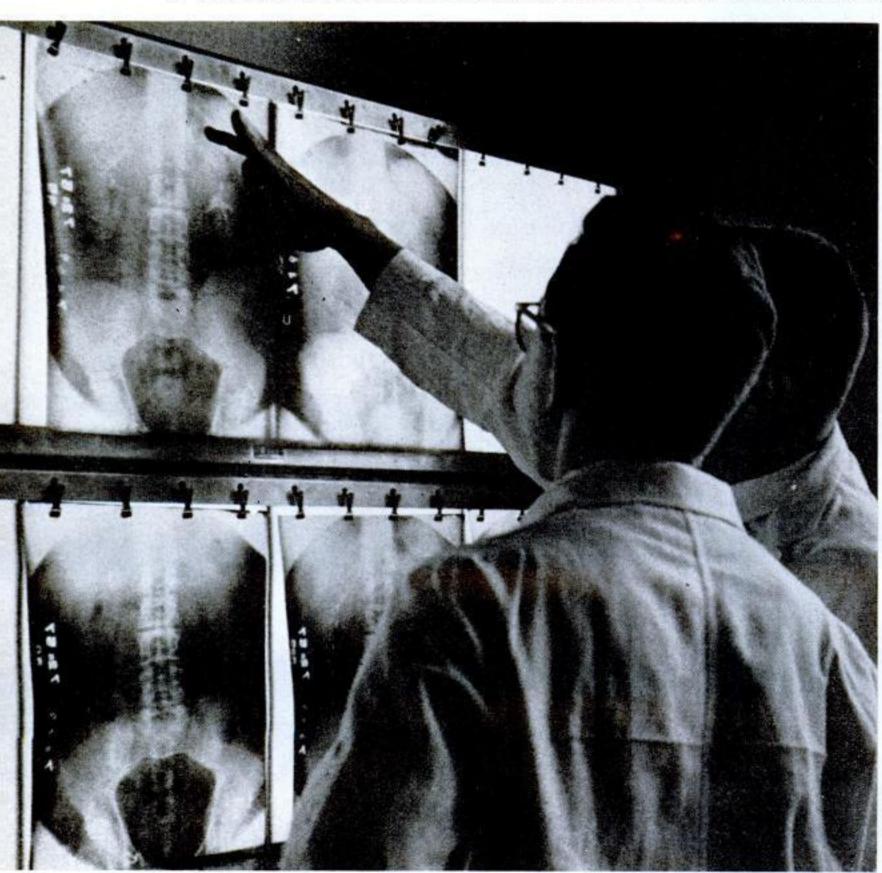


FAMILY RECORDS made available by Mormon church are examined in microfilm room of church genealogical library in Salt Lake City in University of Utah study of heredity's role in cancer.

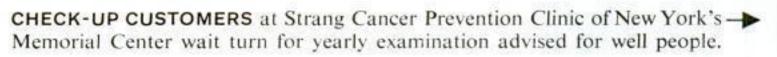
■ WORLD'S TOP EXPERT on malignant cells, Dr. George Papanicolaou of New York's Cornell Medical College, displays projected cell images. He devised smear test that saves thousands of women.



AT MEN'S SHELTER, SOCIAL WORKER RUBIN BLUM RECRUITS MEN FROM BOWERY FOR CANCER DIAGNOSIS PROJECT. OF 800 MEN DIAGNOSED, 90 HAD PROSTATE



PROSTATE X-RAYS of Bowery men recruited in picture at top are studied before operation at Francis Delafield Hospital to weed out incurable cancer cases.





CANCER, 72 OF THESE EARLY, CURABLE CASES



Ways to diagnose in time

A battery of fresh procedures can spot malignant growths. A severe but sure test, a diagnostic operation tried on volunteers from New York's Bowery (*left*), provides early detection of deadly prostate cancer. If used on all men with prostate trouble, it could save 10,000 lives a year. A new aerosol spray which instills salt solution into the lungs to obtain cell samples gives promise of a simple "smear" test for lung cancer. A swallowed dye that turns urine blue

picks out people who may have stomach cancer. Though the "dream test"—a simple blood analysis to pick out anyone with any cancer still eludes scientists, animal tests give hope it may one day be achieved.

Yet all techniques must be applied early, to find the one person in every four who becomes a victim. Each year some 75,000 Americans die needlessly simply because they get no check-up or ignore the warnings listed below.



LADIES' LINE-UP forms in Bry's department store, Memphis, Tenn., for cervical smear test. Of

114 Bry employees taking test, one had cancer. Memphis is first U.S. city to start mass testing.

SEVEN SIGNALS THAT MEAN: SEE A DOCTOR

UNUSUAL BLEEDING is a warning sign, whether from uterus or in sputum, urine or stool.

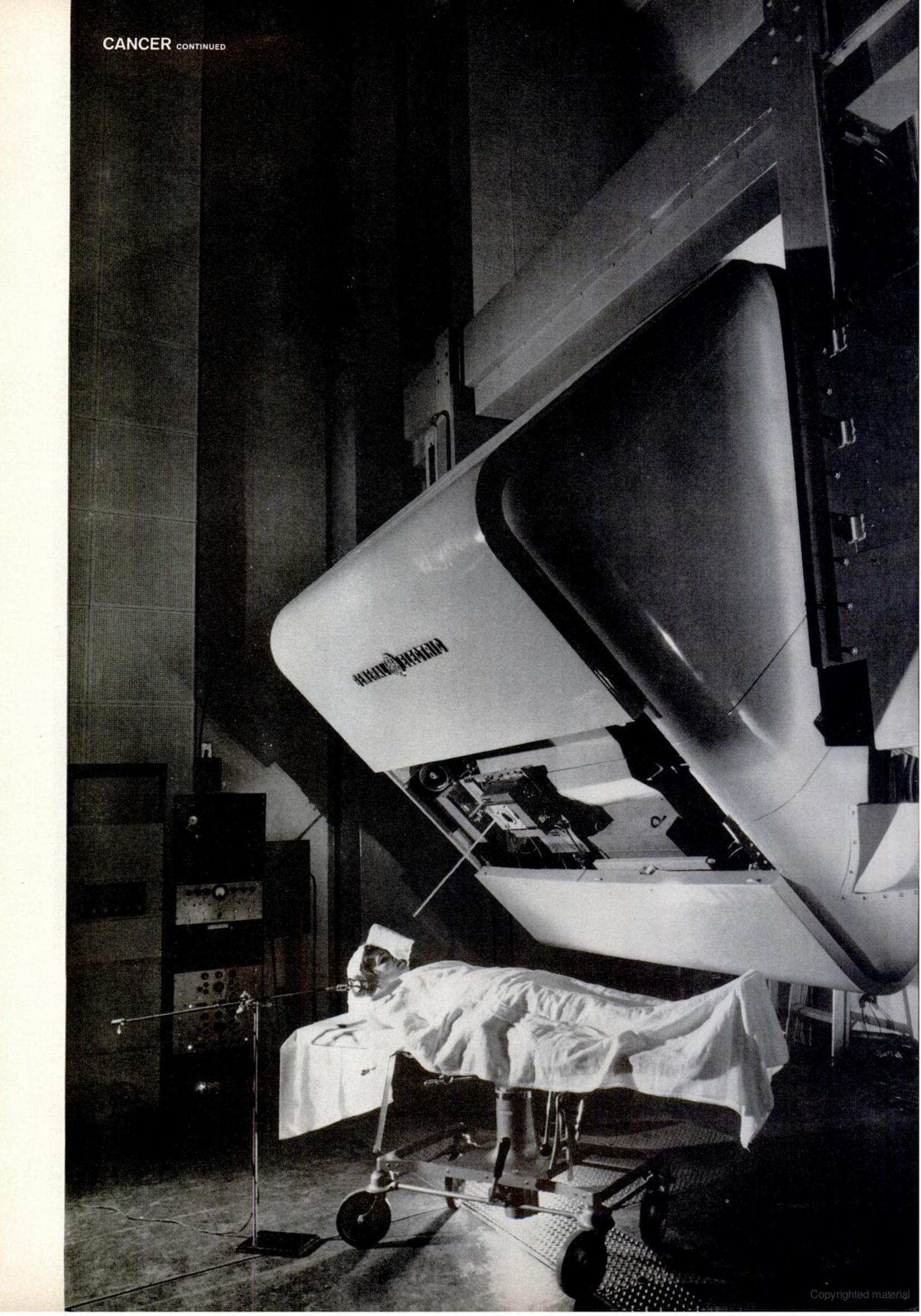
LUMP or thickening in breast, under the skin in any fleshy part, in lymph nodes of neck, armpit or groin, or in testicle, calls for check-up.

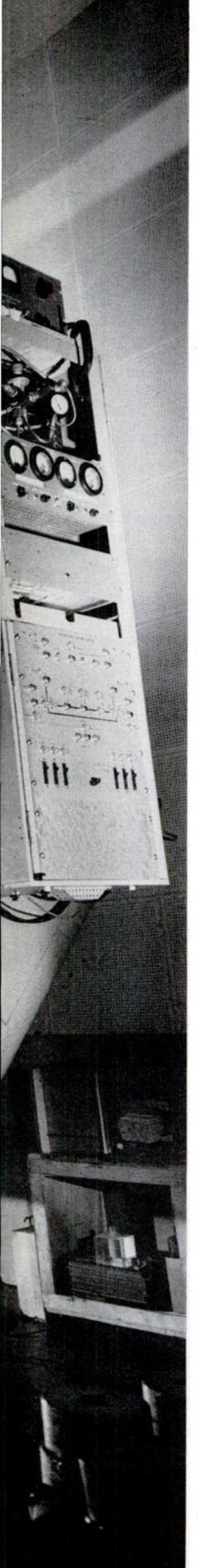
UNHEALING SORE, blister patch or blemish that stays three weeks, or lingering white patch on lips or in mouth, should be shown to a doctor.

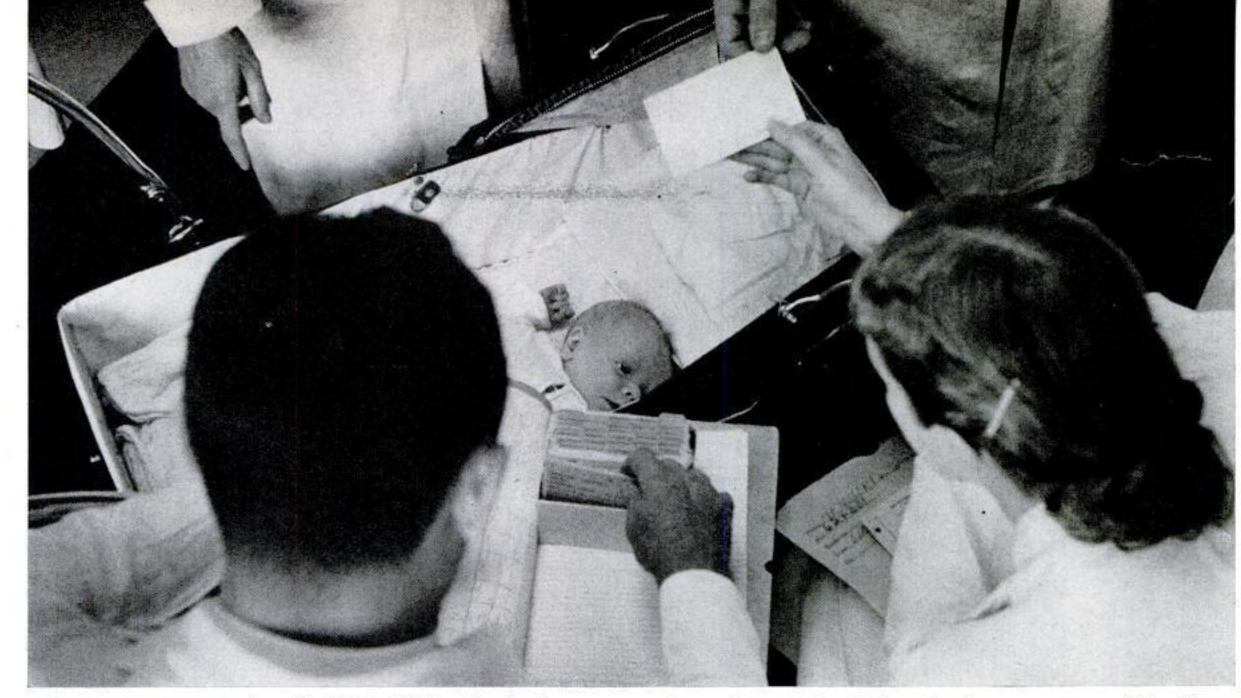
CHANGED BOWEL HABITS which continue for more than two weeks, or pain or increased frequency of urination are danger signs. **LASTING COUGH** or hoarseness, or a persistent wheezing sound in breathing, could mean cancer of the throat, larynx or lung.

PERSISTING INDIGESTION, with uneasy stomach, mild nausea, heartburn, burping of food, full feeling with loss of appetite, requires medical attention after three weeks. Difficulty in swallowing also needs diagnosis.

CHANGE IN MOLE involving enlargement, bleeding or darkening, especially if on soles of feet, palms of hands, or genitals, requires medical advice. So do any unusual new skin growths.







BORN WITH TUMOR, 2-week-old David Henzler lies in carriage at Babies Hospital of the Columbia-Presbyterian Medical

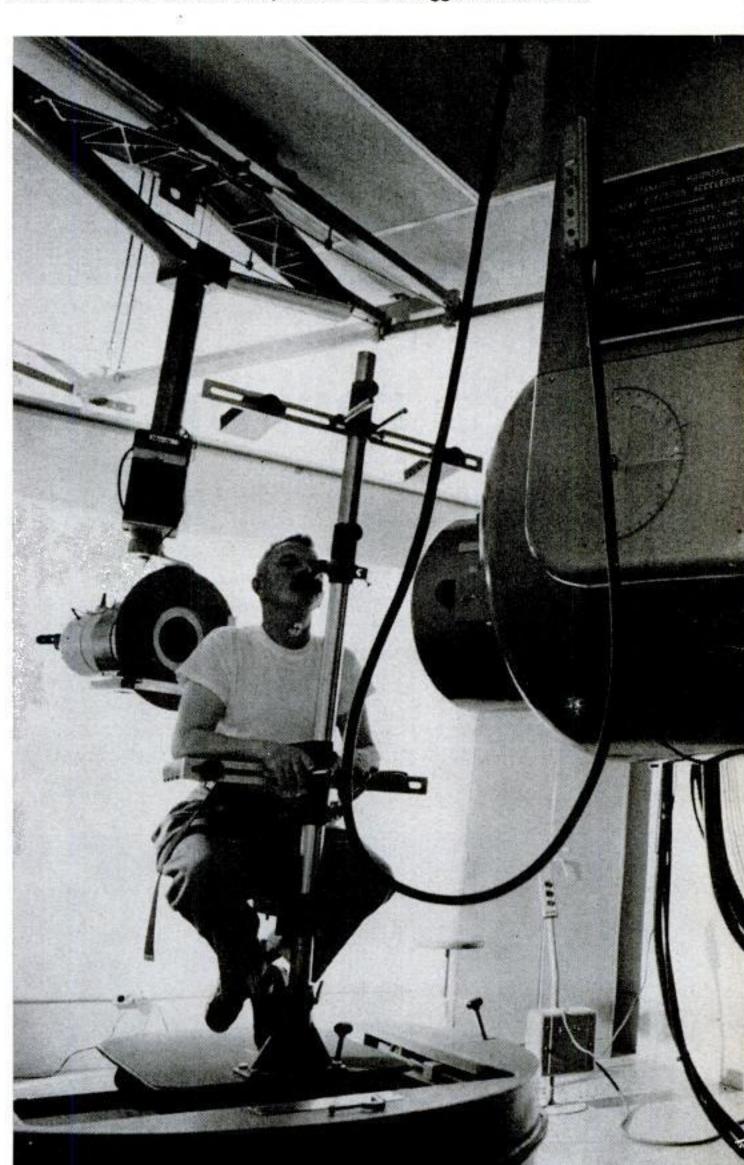
Center, New York, 10 days after leg was amputated in effort to save his life. Of all diseases, cancer is the biggest child killer.

Bigger, bolder counterblows

No matter how perfect detection methods become, they are pointless unless successful treatment can follow. There are still only two proved ways—both vastly improved in the past decade—to cure cancer: surgery and radiation. Radiation comes from gigantic X-ray machines, atom smashers, atomic isotopes and even nuclear reactors. Modern handling of infections, hemorrhage and shock, plus new anesthetics and instruments permit surgeons to do operations they would not have dared try a few years ago.

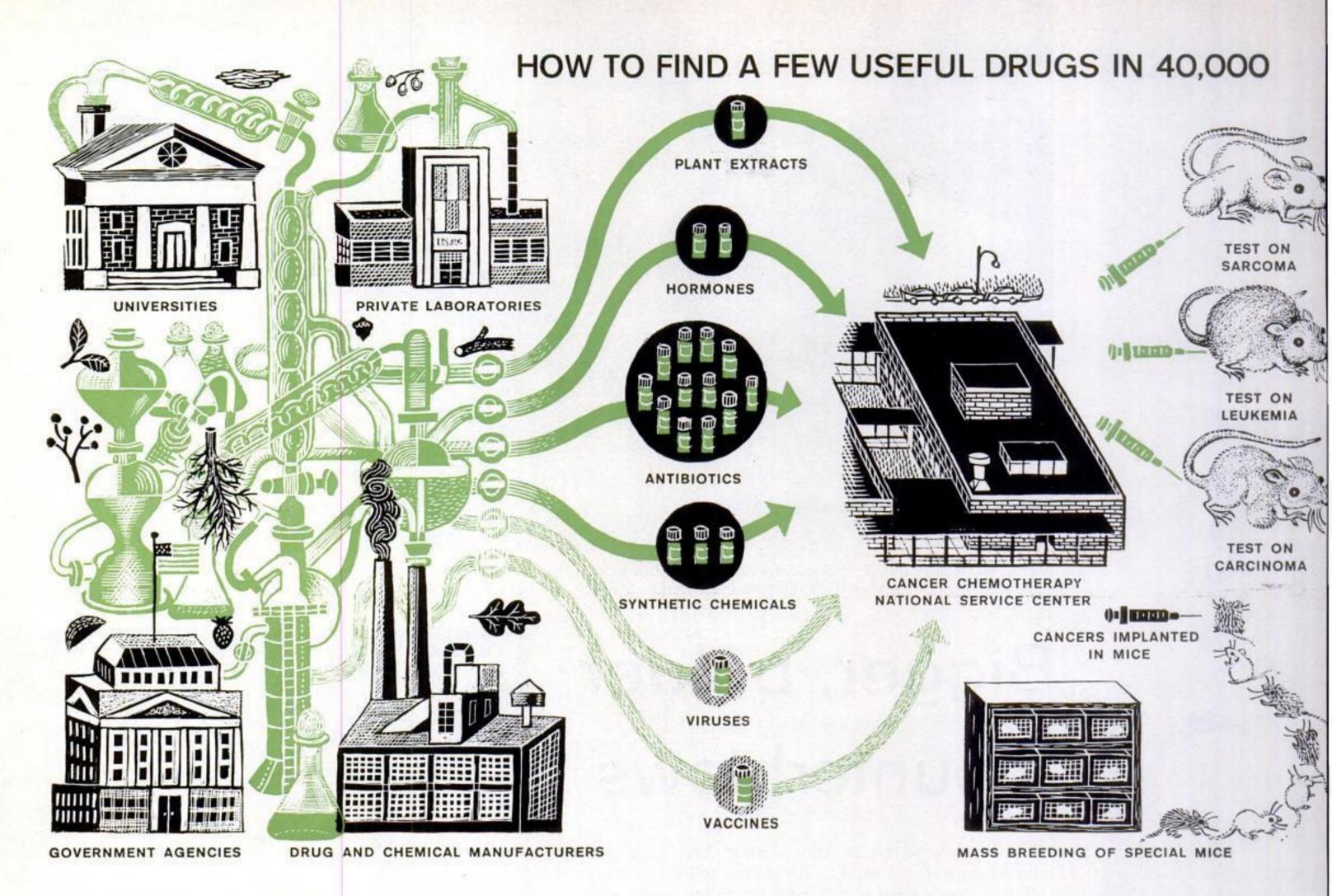
These standard approaches have now been perfected almost to their limit. Further advances depend on radical new approaches: viruses that will feed on cancer tissue, chemical therapy (next page), gland removal to starve certain hormone-dependent cancers, transplants of vital organs like the heart and lungs to replace cancerous parts.





SMALL ATOM SMASHER, a six-million-volt linear accelerator, focuses on larynx cancer of Arner Hermanson at Stanford University Hospital in San Francisco. Powerful rays hit target with great precision, sparing normal tissue from serious damage.

➡KIDNEY TRANSPLANT in surgeon's palm was taken from a dog, will be put into second dog, in search conducted by Boston's Peter Bent Brigham Hospital for ways to transplant human organs. So far human transplants "take" only between identical twins.



\$25 million hunt for the brightest hope:

Given \$25 million by Congress, the National Cancer Institute has set up one of history's most intensive medical dragnets to find chemicals that can cure or alleviate cancer. The screening program is outlined above. This year 40,000 substances are being taken from the shelves of various laboratories (at left in drawing). Some are natural substances, some synthesized for the program. In future years viruses and vaccines will also be tested. The samples go first to a control center. Then each is tested on mice specially bred by the millions and inoculated with the three main types of cancer: sarcoma, leukemia, carcinoma.

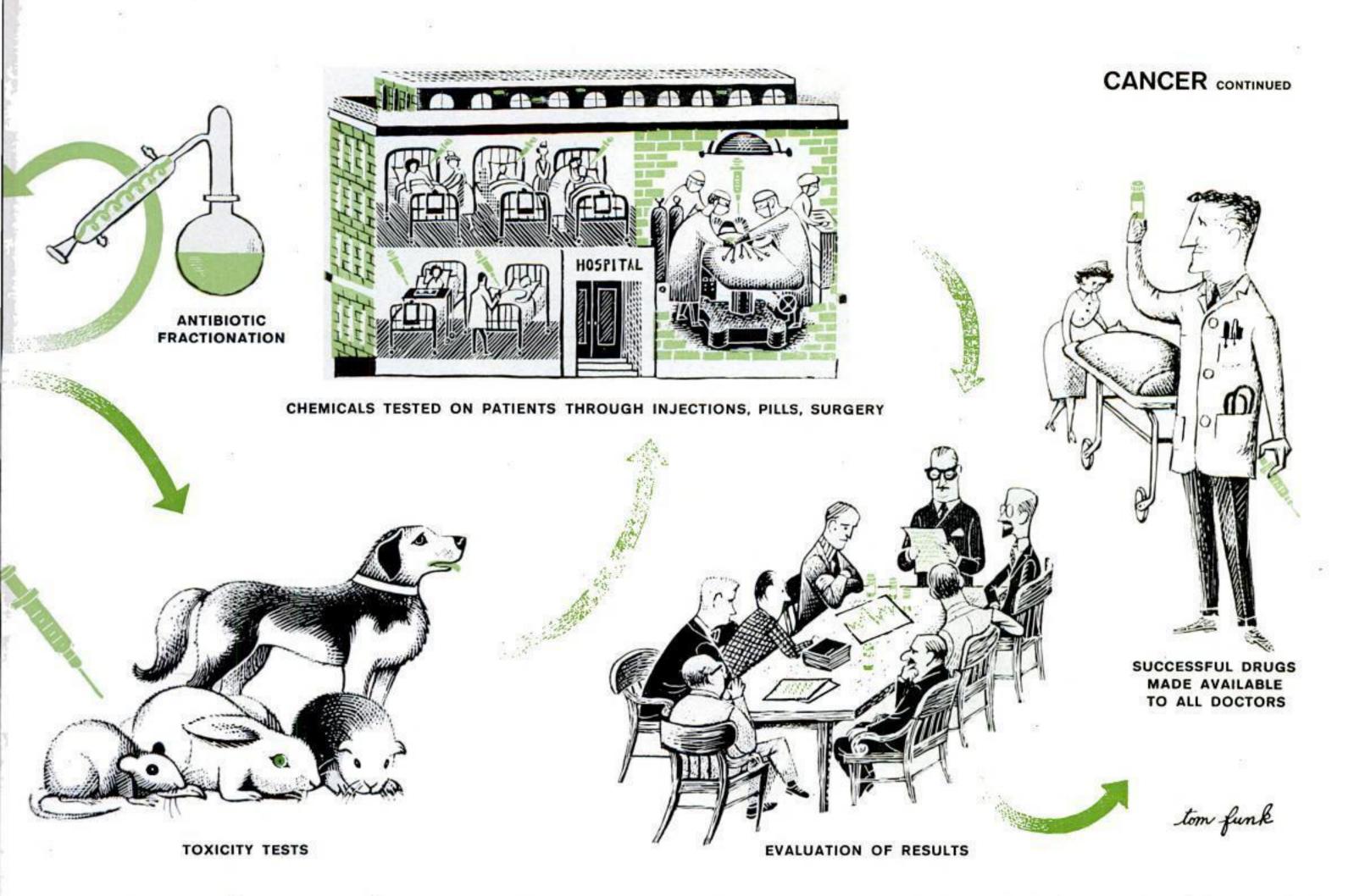
The mouse tests will prove most of the substances useless. But antibiotics that show promise will be separated into pure strains and retested on mice for further culling. All agents (including the purified antibiotics) that do well against cancer in mice will be tried out on other animals to see if they are too poisonous for medical use. The few that pass this screening will be given to specially selected cancer patients (upper right). In final evaluation, only a handful of the original 40,000 substances are likely to prove good enough for general use. Yet the hope of even this handful makes chemotherapy—treatment with chemicals—one of the brightest items among all the news from the cancer battlefront.

The dragnet's first promising chemical, a synthesized amino acid known as NSC-1026, has just passed its final animal tests and soon will go on to human trials. Already doctors have begun using other chemicals



GALAXY OF SAMPLES, a few hundred of the 40,000 to be put through the screening program, are aligned in labeled vials and bottles after arrival at

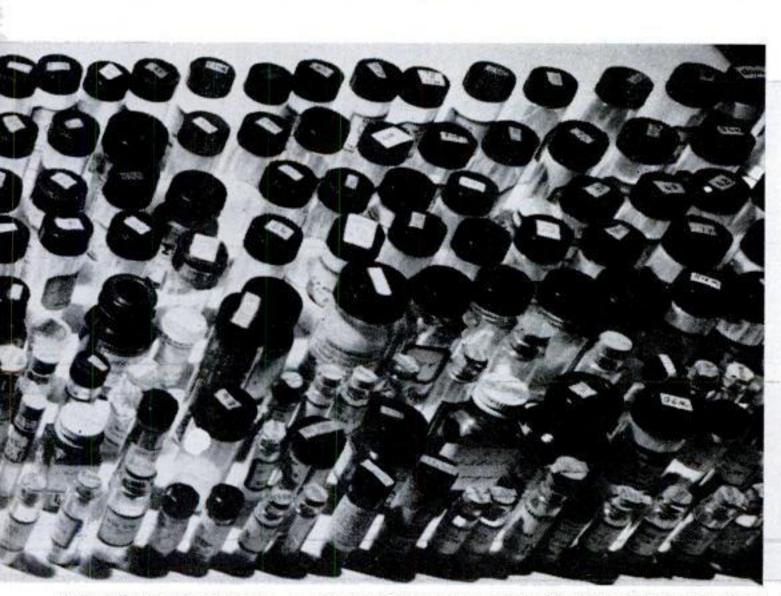
Cancer Chemotherapy National Service Center in Bethesda, Md. Scientists at eight industrial testing laboratories try out each one on cancer-bearing mice.



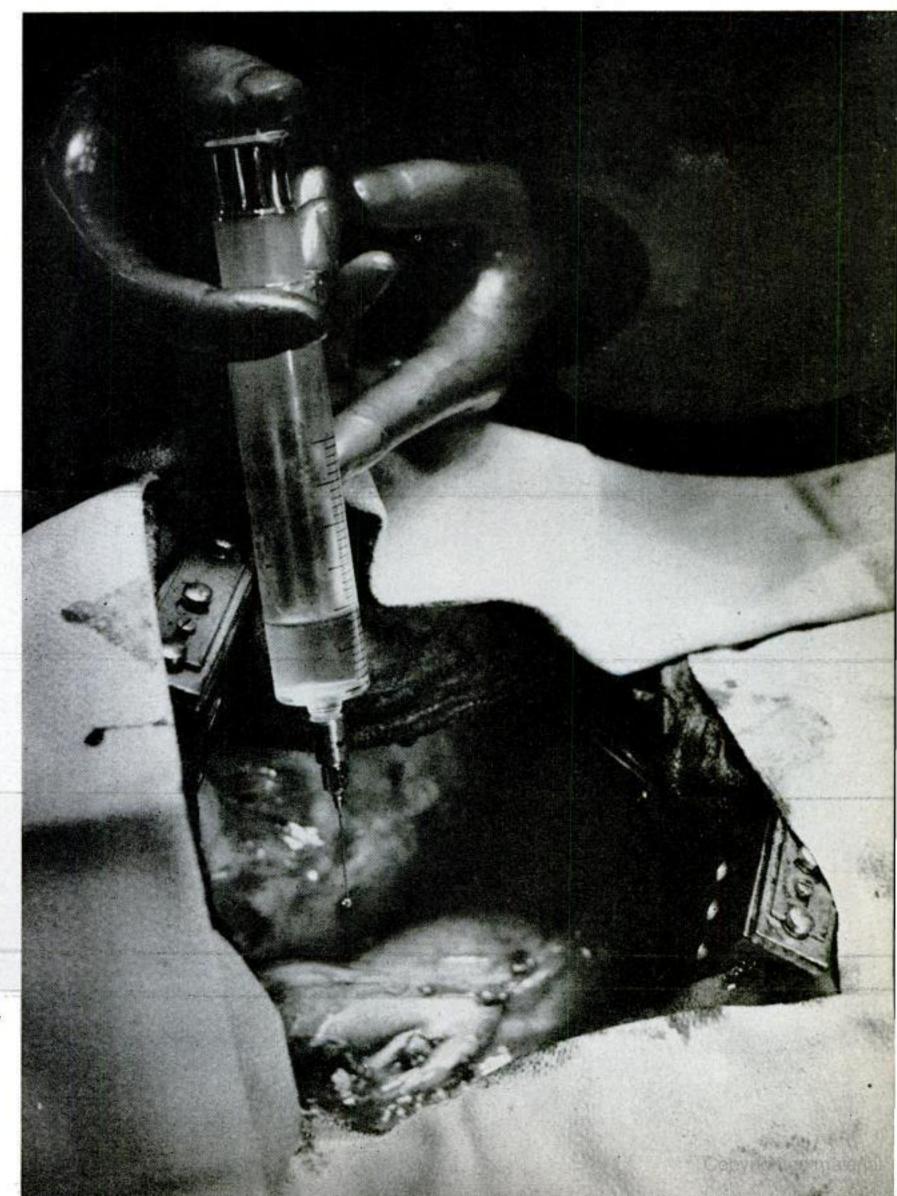
cure by chemistry

known for some years to affect cancer. Some of these are used with surgery in a kind of one-two punch against tumors. After the knife has removed all the cancer it can, the chemical is either dripped into the wound (right) or injected into the veins to track down and destroy any remaining cancer cells. While no chemical has yet produced a proven cure, the drug Methotrexate has destroyed tumors in 15 women with the rare but 100% fatal choriocarcinoma and is prolonging their lives.

"We haven't taken any giant strides," says Dr. Kenneth M. Endicott who runs the chemical screening program. "We are inching forward. But with my fingers crossed, I think before long one or another of the chemotherapists will announce he has cured a patient or two with drugs."



NITROGEN MUSTARD, a cancer-killing drug related to World War I poison — gas, is dripped into cavity where a patient's cancerous lung has been removed.





LARYNGECTOMEES' LESSON on how to talk after surgery for larynx cancer teaches them to use

burps instead of breath. Max Fried (left), a laryngectomee himself, demonstrates for Detroit class.

Victims turned victors

Since cancer, though seemingly gone, often comes back again, doctors do not use the word "cure" until five years have gone by with no recurring malignancy. The chances of victims reaching this goal vary widely with different kinds of cancer—from only 3% for esophagus cancer and 10% for brain tumor to nearly a perfect 100% for the earliest stage of uterine cancer. Four early breast cases in five are saved and early skin cancer victims are cured better than 90% of the time. There are still no cures

at all for leukemia, and hard-to-spot lung cancer is cured only once in 20 times.

Despite statistics, there is still widespread popular belief that cancer is never curable. Yet 800,000 living Americans have had the disease, undergone treatment and been cured. Every year 150,000 more join their ranks. The seven beaming members of the Cancer Courage Club of California seen at right have just pinned on tiny souvenirs to celebrate the fifth anniversary of their cancers' disappearance.



LARYNGECTOMEES RALPH CORTESE AND MAX ALEXANDER PRACTICE NEW BURP-PRODUCED VOICES

FIVE-YEAR WINNERS, wearing tiny sword pins on their lapels to signify—
official cure, are (clockwise from left) Esther Pastaner who had cervical cancer; Rose Connally, breast cancer; Clare LaVelle, breast; Ida Burkard, colon;
Sadie Woods, breast; Pauline Rodgers, colon; and Charles C. Lovell, colon.







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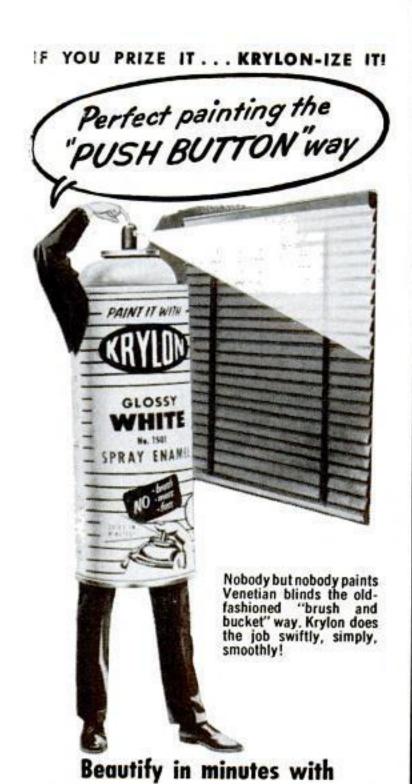


"Sunday Afternoon" by Esther Bubley

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JAN HARWOOD, 8, HELPS GARY KNUTZEN IN JUMPING DOUBLES. HE TAKES COURSE FOR COLLEGE CREDIT IN THIS

CHILDREN COACH FUTURE COACHES

Collegians go to the experts on jumping rope, hopscotch, jacks

The young man jumping rope with the 8-year-old girl is conscientiously doing his work for a required course offered by the physical education department at Western Washington College of Education, Bellingham, Wash. The course, called "Methods and Materials for the Elementary School," teaches future teachers how to teach primary grade children and tries to be thorough and authoritative. Whenever

the future teachers are in doubt about the youngsters' games, techniques of skipping rope (above) or rules of hopscotch or jacks, they go to the acknowledged experts on the subject. In this case the best authorities happen to be the children at a college-run school who cheerfully demonstrate for their elders. As a result, the future teachers have an effective way of learning and the children have a fine time teaching.

CONTINUED



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Games CONTINUED



LEARNING TO SKIP ROPE, Jake Creasey is taught a timing chant. It goes, "Teddy bear, Teddy bear, turn around. Teddy bear . . . touch the ground."

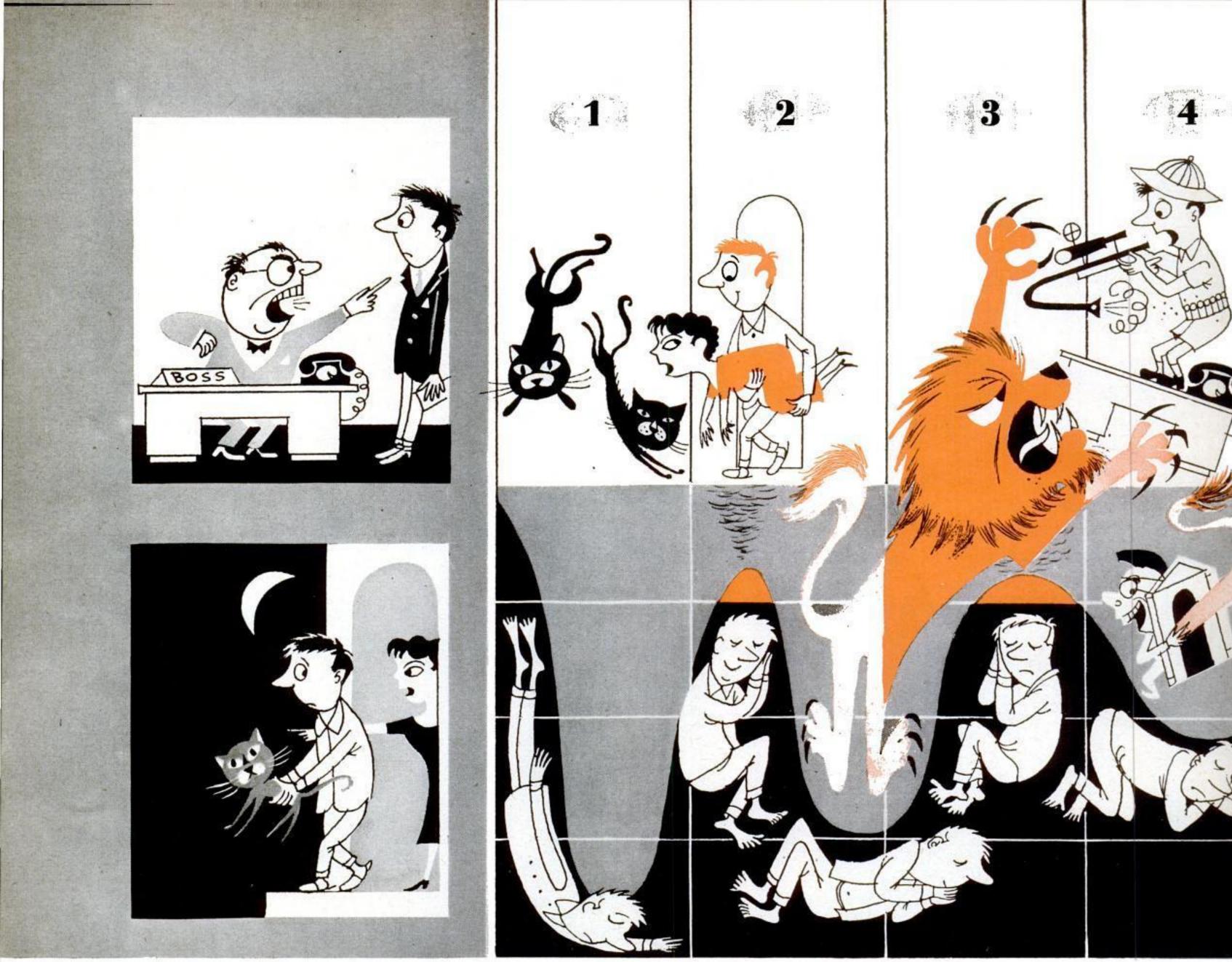


HOPSCOTCH looks easy in theory as Jan Harwood gives expert exhibition. But in practice the collegians' feet proved too large to fit in the small spaces.



JACKS DEMONSTRATION is provided by Kit O'Connor, 11 (left), and Jan for Jake and Mick Vivian. Here Jan does a "twosie," two jacks on one bounce.





ONE NIGHT'S DREAMING CYCLE in fanciful chart drawn by Richard Erdoes shows nocturnal hours of average man after day of being hounded

by boss at office and ordered by wife to put out the cat (*left*). As he is falling asteep he has vague images of cats. Then he follows a pattern of sleep

shown by the dark area at bottom of chart, falling into deep dreamless phases, but rising to lighter phases when dreams come. First sleep is deepest

ALMOST EVERYBODY HAS

Scientists' surprising discoveries disprove old myths, showing that we

FOR the first time scientists are now learning the stuff that dreams are made on. They have discovered how often most of us dream, when the dreams come and how long they usually last. They know now that many of our most deep-rooted beliefs about dreaming are sheer folklore. Their findings may be of great value in psychoanalysis and in the study of the mentally ill and could cast significant light on the thought processes of everyone—although to date the significance of dreaming still remains a mystery.

The key to these discoveries is the development of a new method that enables researchers to tell, four times out of five, the exact moment when a person is dreaming. Researchers investigating the world of dreams had until now been at the mercy of the hazy, morning-after recall of their subjects. Now they can monitor a man's sleep, arouse him in the middle of a dream and record it while it still retains its original form and emotional impact.

"To those of us who have been trying to unravel the mysteries of the mind and the brain, this is a historic breakthrough," says a New York psychologist.

The basic studies which have led to this development were inaugurated at the University of Chicago and have been supplemented by experiments at the State University of New York Downstate Medical Center in Brooklyn. Here are some of the long-cherished popular notions about dreaming that the scientists say they have demolished:

Some of us seldom or never dream

The fact is that almost all of us dream every single night, whether we are aware of it or not. In six hours of continuous sleep, the average person spends a total of 64 minutes in dreaming. In eight or more hours of sleep, the average person dreams from a total of one and a half to two hours. Periods of dreaming occur at intervals during the night, and vary from eight or nine to 30 or more minutes in length.

Dreaming is a sign of mental, emotional or physical distress

Mental, emotional or physical distress may condition the quality or content of dreams but it does not cause them. Dreaming is a normal, natural component of sleep and life.

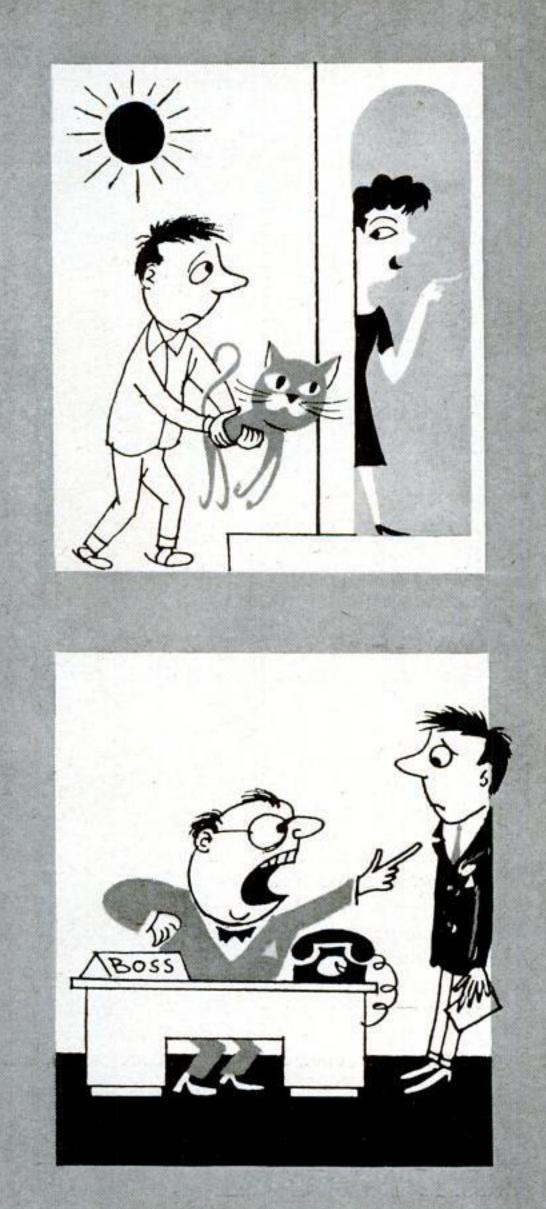
In dreams everything happens in a flash

This is untrue. Scientists have learned that it usually takes as long to perform a given action in a dream as it would take to perform the same action in waking life.

Tossing and turning mean that the sleeper is having a dream

Quite the contrary. Nine times out of 10 our bodies, arms and legs are almost motionless when we are dreaming.





of the night. In second hour he rises to a lighter phase of sleep and has first dream—of putting wife out. After more deep sleep he dreams in third

hour that cat is a lion whom he tries to shoot and gun backfires. In fifth hour he dreams he is a gladiator; emperor and lion have boss's face. In

the seventh hour he is a small boy fleeing. In last hour he vanquishes boss. Next day he has forgotten his dreams and his life is unchanged (above).

DREAMS ON EVERY NIGHT

dream at regular intervals for predictable lengths of time by ROBERT O'BRIEN

Women dream more than men. Artistic and passionate people dream more than dullards

Dreaming is a matter of cycles and sleep rhythms, not of sex or temperament. Every adult in normal sleep follows a basic sleep pattern and consequently dreams approximately the same length of time every night as everyone else. It is true, however, that persons with varied and enthusiastic interests have more impressive dreams than those with a limited range of awareness. "Why shouldn't they?" one of the scientists said. "They have more strings to play upon."

Some people dream in Technicolor

Dream narratives have convinced researchers that the presence of more than one color in dreams is unusual. So-called "Technicolor dreams" are extremely rare.

Dreaming is a purely mental process, without sensory manifestations

In their cardinal finding, the scientists learned that our eyes move when we dream. They follow the action in a dream as they would a scene in real life. To the scientific observer with the proper equipment the movement reveals the fact that a sleeper is dreaming.

The new study of dreams, discrediting lore that has been handed down from antiquity, has been in progress since 1953. It has taken place principally in a three-room "sleep laboratory" in Abbott Hall, a stately building of arches and mellowed brick which stands on a quiet street of Chicago's South Side.

The experiments brought to Abbott Hall a curious conglomeration of subjects—students in need of money (they were paid \$3 a night), researchers, housewives, anonymous drifters. Some said they dreamed all the time. Some said they dreamed once a week or once a month. Others said they could not remember dreaming since childhood.

At the rate of one or two every night the subjects went to sleep on the laboratory's plain iron cot. Electrodes were pasted to their scalps, to the bony ledges of their eye sockets, to their backs and chests. A tangle of red, blue, green and yellow wires sprouted from their heads and was connected to machines in the adjoining room. All the subjects slept. And whether they remembered it the next day or not, all of them dreamed.

In the dim light of the instrument room a cardiotachometer clicked away their heartbeats. The swinging pens of the EEG machine—the electroencephalograph—recorded the infinitesimal brain waves, multiplied a millionfold, that pulsed through the varicolored wires. By means of these tracings—the graphs from 400 fantasies gathered from more than 1,000 hours of sleep—the scientists arrived at their conclusions.

Their findings fall basically into the realm of physiology. As yet they have no direct bearing upon the art of dream interpretation. They do

not disturb the celebrated theories of Dr. Sigmund Freud, who regarded dreams as fulfillments of irrational wishes, or the tenets of Dr. Carl G. Jung, Freud's most distinguished student and later opponent, who believes that dreams are constructive expressions of our inherited race experience. But they do reveal the when, the who and the how of dreaming.

The discoveries were achieved through the intelligence and patience of a group of researchers headed by Dr. Nathaniel Kleitman. A 63-year-old professor of physiology at the University of Chicago, Dr. Kleitman has earned an international reputation for his work in the field of sleep and wakefulness. He is often referred

to as "Doctor Sleep."

A few years ago he and Dr. Eugene Aserinsky, a young Ph.D., collaborated in a study of the eye movements of sleeping adults. They noted the usual, slow rolling of the eyes in sleep. But as he sat over the recording pens night after night, Aserinsky became aware of a different kind of activity: sudden bursts of rapid, jerky eye movements that followed a pattern appearing for periods of perhaps 20 minutes, then dying away. These periods returned several times every night. What was going on?

"My hunch is that it has something to do with dreams," said Kleitman. "Let's wake up some subjects when the movements occur and find out."

On 20 out of 27 occasions when the electrooculograms (records of eyeball movement) revealed rapid eye motion, subjects reported that they had been dreaming. Kleitman and Aserinsky cautiously concluded: "The evidence for the association of rapid eye movements with the recall of dreaming is strong."

Aserinsky presently left Chicago for another post and his work with Kleitman was carried on by Dr. William Dement, 29, then a postdoctoral fellow at the university and now an interne at Mt. Sinai Hospital, New York. After further experiments, Kleitman and Dement announced that the incidence of dreaming during periods of rapid eye movement was even higher than the initial tests had shown.

They followed an unvarying procedure. The subject reported shortly before his usual bedtime. He had eaten normally and had consumed no alcoholic or caffein-containing beverages during the day. Electrodes were attached to eyes and scalp. He retired for the night in the laboratory's inner chamber.

In the adjoining room Dement watched over the dials, ruby-red signal lights and scratching pens of the EEG machine. When the machine registered a dream in progress and he wished to interrupt it, he pressed a key which rang a doorbell rigged up beside the bed. He then entered the bedroom, switched on a tape recorder and left instantly without speaking, to minimize the possibility of suggestion or influence. The subject dictated his dream into the recorder—or reported that he had not been dreaming—turned off the machine and went back to sleep. Sometimes after a night of observation Dement fastened electrodes on himself and fell exhausted into the bed vacated by the subject. His wife Pat or an assistant checked the EEG machine and aroused him when it was time for him to record his own dreams for the experiment. "It was real drudgery," says Dement. "Maybe that's why it had never been done before. But we had the high motivation. We felt like pioneers."

Every night every subject showed the rapid eye movements indicative of dreaming. Out of 191 awakenings during these periods, dreams were reported 152 times, an approximate 80% incidence of dream recall. In 160 awakenings in the absence of rapid eye movements, failure of dream recall was logged 149 times, or approximately 15 times out of every 16. The hypothesis stood up. Kleitman and Dement had found a workable method for the study of dreaming.

The discovery that our eyes are a clue to our dreams has led to a number of fascinating discoveries. For one thing, the scientists found that the dreamer's eye movements reflected the visual imagery of the dream: they revealed where the dreamer was looking in the dream, and indicated in general whether the dream was quiet in tone or active.

One subject was awakened after one minute of vertical eye movements and reported that in his dream he had been standing at the foot of a cliff operating a hoist. People were scaling the cliff, and he was looking up at them, then down at his machinery. Another, after a similar period of up-and-down rapid eye movements, said that in his dream he had been picking basketballs off the floor and shooting them into a basket above his head. In one instance where the subject registered a rapid flurry of horizontal movements, he reported a dream in which he was looking on, as at a tennis match, while two people threw tomatoes at each other.

Other sets of experiments yielded, for the first time, an accurate measure of dream duration. They demonstrated that we do, indeed, compress and elide time in our dreams, handling it as writers handle it in novels and plays. But comparisons between the actual length of a single dream incident and the duration of rapid eye movements convinced Kleitman and Dement that dreams usually consume as much time, rough-

ly, as they would if acted out in real life.

Dement and an associate once permitted a sleeping subject 10 minutes of uninterrupted rapid eye movements, then sprayed his exposed back with a waterfilled hypodermic syringe. They let him dream for 30 seconds more, and woke him up. What, they asked, had he been dreaming?

The subject described a play in which he had been taking part. "Suddenly," he said, "the leading lady collapsed. Water dripped on her. I ran over to her and felt water dripping on my head and back. The roof was leaking. Why had she fallen? I concluded some plaster had fallen on her and looked up. There was a hole in the roof. I dragged her to the side of the stage and rang down the curtain. Then I woke up."

They asked the subject to act out his dream from the moment he felt the water. His pantomime took only a fraction less than the 30 seconds that he had been allowed to go on dreaming, after the application of the stimulus.

Since we appear to have several dreams a night, is there any relationship between them? "Dreams," Dement says, "seem to be more related than not. Sometimes one dream picks up where the preceding one left off. The continuity is never very smooth, but there will be a connecting thread."

One subject dreamed first that he was walking down a crowded corridor. He had to watch his footing because chunks of ice were scattered across the floor. In his second dream he saw a man fishing. "What are you fishing for?" he asked. "Watermelons," said the angler. But when he got something on his line and pulled it from the water, it was a large cake of ice. In his third dream the subject was outdoors. He looked up and saw snowflakes coming out of the sky. The following morning, as he listened to the recording he had made of his dreams, he was intrigued by the ice-and-snow motif that ran through them, though he could not explain it.

The whiteness of the snow added an eccentric touch of color to the sequence. The dreams of most people are muted in tone, as if seen in the half-light of a gray, gloomy day. Occasionally a subject reports a dream in which everything seems tinged in monochrome—green, red or brown, as though he might have been looking through a faintly tinted glass. But dreams with several colors are extraordinary.

"When I hear about tremendous all-color dreams," Dement says, "I have to doubt them. People like to embellish their dreams and make them sound exciting."

One of the most challenging and confusion-ridden issues revolved about the question of just when we do dream. Do we dream as we are falling asleep? In the middle of the night? As we grope for the ringing alarm clock?

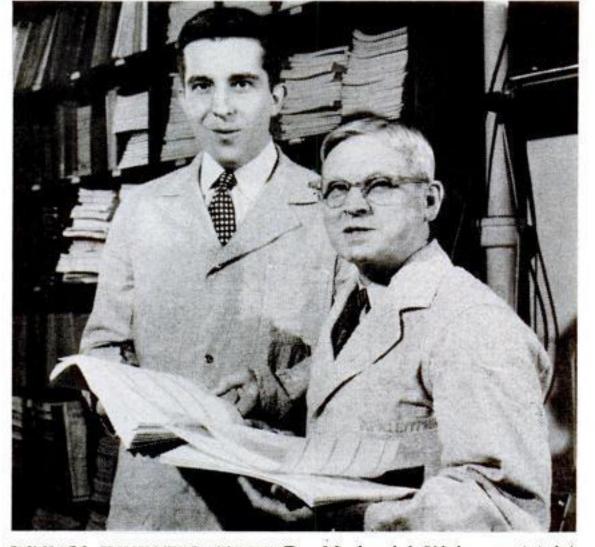
Kleitman and Dement came to grips with this problem in experiments with more than 30 subjects. As each subject slept through one or more nights undisturbed, the scientists recorded body movements by means of an attachment on the bedspring. Brain waves and eyeball movements were also recorded in the usual manner.

A pattern of crest-and-trough

THE correlation of these records yielded a kind of orchestration of a night of rest and demonstrated that dreaming takes place several times a night but in only one particular stage of sleep. The timing may vary among individuals, but the flow of cycles, the pattern of crest-and-trough in the varying depth of sleep and occurrence of dreams, applies to us all.

The pattern goes like this:

In an average healthy night of rest we drift little by little to the brink of sleep. Reveries come and trail off. Images—flashing lights, perhaps,



DREAM INVESTIGATORS Dr. Nathaniel Kleitman (right) and Dr. William Dement go over test results in the sleep lab.



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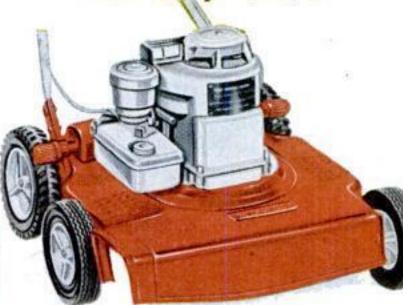
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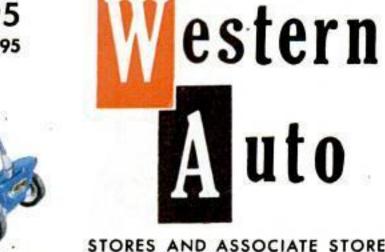
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DREAMS CONTINUED

or faces—appear, waver like reflections in moving water and vanish. But there is no organized dream. We are not yet quite asleep.

All at once we slide over the edge and down into our deepest slumber (see chart, pp. 120, 121). We remain there not for two hours, as tradition has it, but for something like 30 minutes. Then we make a rising approach to our lightest phase of sleep and reach it about 70 minutes after falling asleep. This light phase is the time in which we dream. We seldom, if ever, dream in any other stage of sleep.

The first time we attain this phase, we remain in it on an average of nine minutes. We dream our first dream of the night. Then we fall back into a trough of deeper sleep, though not so deep as before. Toward the middle of the third hour we are back at the crest for about 19 minutes more of dreaming. We return later for a third dream passage of about 24 minutes. The next period of dreaming occurs toward the onset of the seventh hour. This time we dream for 28 minutes or more. If we sleep through this period, we can count on perhaps another half-hour of medium slumber. Then we drift upward once more to the crest and remain there dreaming until we awake.

Throughout the night our dreams grip our attention like an engrossing drama or motion picture. As we approach the dreaming stage our shoulders and hips seek new positions on the bed. We shift our arms and legs. Our heads find a fresh expanse of pillow. The scientists liken us to people in a theater, fidgeting restlessly in their seats before the curtain rises.

But when our dream begins our body movements cease. As long as the dream is in progress we lie very still-except for our eyes, which follow the action that is taking place. Then, as the dream ends, our eye movements cease. We resume our shifting and turning. The play is over and the audience is once again restive.

Kleitman and Dement were struck by the paradox that the eyes reflect the action in dreams while the body does not. How can we lie quietly through dreams in which we are running, fighting, pushing, pulling, climbing? The only explanation Kleitman and Dement can offer is that the areas of the brain which control body movements are not active when we are dreaming. They come to life only when the dream is ended.

Not only do dreams fail to register on our bodies while they are in progress, they often fail also to register on our minds after they are over. Millions of us awake every morning and do not recall the flimsiest wisp of a dream. It is hard to believe that we have spent an hour or more in weaving fantasies around our deepest hopes and fears. But we have, and we have forgotten. One explanation is that we sometimes deliberately suppress perplexing or unpleasant dreams, just as in wakefulness we willfully dismiss from our minds something that has troubled or distressed us. But implicit in the nature of dreams is an even more elemental reason.

The censor is not watching

THYSIOLOGICALLY, the process of dreaming takes place far below the level of wakeful consciousness. It is low grade mental activity, comparable to that exhibited while awake by the drugged, drunk and delirious. Like them, we in our dreams command poor analytical ability. We are in faulty communication with reality. The coward and the censor in us are looking the other way. We have escaped, momentarily, from the prison of our inhibitions.

As Kleitman says, "The dreamer can make all his wishes come true. Money, power, women, revenge, success-whatever he wants is his. He writes the drama, he selects the cast, and he plays the hero."

Moreover, we dream in puzzling symbols and allegories. A challenging mountain peak may represent our job, a bottomless lake our past. A train journey may mean progress. A game of tennis may stand for the game of life, Khrushchev for our heartless landlord. We do not dream forthrightly of hoping to make a new start in life. Instead, we may dream of striking out across a narrow bridge that spans a perilous river.

But a primary characteristic of low grade mental activity is the inability to remember. It is at work in the boy who forgets why he tied the string around his finger, the alcoholic who remembers nothing after the fifth martini, the old man who tells the same story over and over again.

So it is with dreamers. The fact that we don't recall dreaming when we wake up does not mean that we have gone dreamless. Night in and night out, according to these scientists, the only ones who give no evidence of dreaming are the very young-under, say, six months -and the very drunk, whose consciousness in sleep never rises to the dreaming level. All the rest of us who sleep a good night's sleep are dreaming from 20% to 25% of the time.

To know this at last is thrilling to those studying the complexities of the human mind. And the discovery of a technique by which



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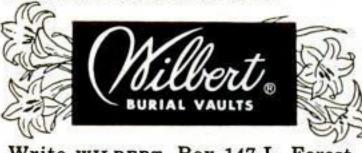
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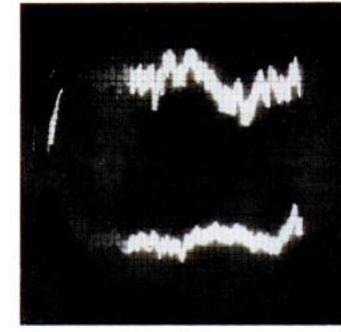
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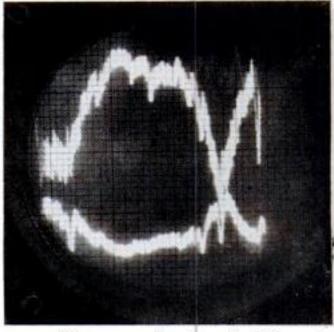


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EYEBALL MOVEMENT, as traced on oscilloscope, is absent while subject sleeps soundly (left). But during dreams (right) eyes move rapidly.

DREAMS CONTINUED

they can capture and use these dreams has carried them to new frontiers of research and experiment.

Now they can gather a dream while its emotional values are still naive and honest, while its imagery is still clear, and before the dreamer's instincts of self-protection have time to distort or suppress. When a psychoanalyst says to his patient, "Bring me some dreams," and the patient returns empty-handed, the analyst may now, if he wishes, send the patient to a sleep laboratory for the night, and the next morning listen to four or five dreams recorded under clinical conditions at the instant of awakening.

Furthermore, he can compare these new dreams with the same dreams as they may be recalled later by the patient at his next analytic hour. What, in the interim, will the dreamer forget or suppress? What will he modify? How will he shift the emotional emphasis? How will he present the inner conflicts his recordings reveal? The clue to a neurosis may be buried in the answers to these questions. Trying to arrive at them without the original dreams has been one of psychiatry's most exacting and difficult tasks.

In one of the method's first applications Dement experimented with 17 chronic schizophrenics at the Manteno, Ill. State Hospital. Most of them said that they never dreamed. Awakened during rapid eye movements, however, everyone produced dream narratives and disclosed a strange fact: schizophrenic dreams frequently consist of the image of one object, motionless in mid-air. Question and answer interviews would proceed like this: 1) Were you dreaming? Yes. What about? A torn coat. Is that all, just a torn coat? Yes—I have nothing in my dreams. 2) Were you dreaming? Yes. What about? A shelf. Is that all? Yes. An empty shelf, hanging in space? Yes.

Through the discovery of this vacant, near-vacuum quality of schizophrenic dreams, Dement has given psychologists new insight

into the pathology of the mind.

Using methods similar to those of Kleitman and Dement, an internist at New York Medical Center named Arthur Shapiro amassed evidence which gives him high hopes of discovering why illness often strikes during sleep. "People sometimes wake up in the middle of the night with bronchial asthma or a coronary attack," he says. "Could it have been tripped off by a disturbing dream? If we find this to be true, we may be able to discover ways of preventing the attacks by learning to control the dreaming process."

Can dreams be directed?

DERHAPS it will prove possible not only to control dreams but **a** so to direct them to some extent through the use of external stimuli, like the water sprinkler that made one subject dream of a leaky roof. Stimuli will not cause dreams. But the intrusion of stimuli into dreams already in progress is another matter. When an audiooscillator tone at middle C was sounded softly for five seconds, a dreaming subject sometimes incorporated it into his dream as a roaring noise, ending his dream episode spectacularly with an earthquake or the crash of a plane. "I have a feeling that a stimulus gets into a dream if it is appropriate for it to be there," Dement says. "The better it fits, the more easily the dreamer incorporates it into his dream."

All of us unconsciously record in our minds thousands of sensory. impressions every day—marginal sights, sounds and smells from the fringes of our attention or concentration. It is almost certain that they rise to the surface of our consciousness in dreams, appearing as details that seem new to us yet possess a haunting familiarity.

In an experiment in which Dr. Shapiro and his associate, Psychologist Dr. Donald Goodenough, took part, a subject, while awake,



IN PRIVATE LIFE Ann Blyth at home is the wife of Dr. James McNulty, and mother of three children.



IN PUBLIC LIFE Ann Blyth at the Academy Award telecast,

AFTER THE CAMERA STOPS ...



As an actress, I have always believed that the truer challenge, the deeper obligation begins after the camera stops. My role as a woman in my community and in my home has always overshadowed the excitement of any part I have ever played on stage or screen . . . making the strongest demands on knowledge and insight.

Often I have found LIFE Magazine an important stepping stone to such insight. LIFE has a way of getting to the heart of the matter, of making it easy to understand broad issues and to act upon them.

And LIFE is a continuing source of help in a more personal way as well. As a doctor's wife, it is essential for me not only to understand my husband's dedicated work, but also to aid and encourage him. LIFE's fine articles on the progress and problems of medicine are always on my "must read" list.

As a mother of three small children, my thanks again go to LIFE for dealing so candidly with so many aspects of bringing up children-from the basic controversy on "how Johnny learns to read," to the challenge of the recent series on Education.

In our busy home, LIFE is a welcome visitor that brings us up to date on the world, the arts, the humanities, and most of all-people.

Ann Blyth



9 Rockefeller Plaza, New York 20, N.Y.



Now, after almost five years of marriage to a doctor, Ann is accustomed to the calls from patients that interrupt vacations, meals and sleep. Picture at left shows Ann and husband making the most of a spare moment and enjoying one of Ann's favorite hobbies —oil painting.

Talented Ann Blyth started her career as a child singer on a radio show. Then to Broadway in "Watch on the Rhine." With the prize winning film, "Mildred Pierce," her success was assured.



"THE DEMANDS of three small children are things no mother can escape, nor would she want to," says Ann. "Especially, that hour before bedtime; the wonderful time when stories are read, youngsters snugged into their beds, covers tucked in, yes and the innumerable drinks of water supplied! This is the hour when all our love and devotion come into focus. It's the hour that means most to me—and to them."



BEACON FALLS RUBBER FOOTWEAR

Beacon Falls, Connecticut





the tang that makes dinner a winner!



TRY A FLO-CONTROLLED LINZER Brush

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DREAMS CONTINUED

was shown a colored slide which flicked on and off so fast that there was time enough for the merest flashing glimpse. Asked to sketch his impression, the subject could draw only a rough rectangle encompassing a set of converging lines. The blurred image, he said, made him think of a metal comb.

That night Shapiro and Goodenough awakened him during his rapid eye movement periods. He recorded a recurrent image, "a brown or black dog that stared at me with silvery eyes." He also dictated an anxiety-laden dream: "Someone was being severely admonished by a parent. There was a lot of angry talk. Then there was a revolution. A soldier with a hideous grin and protruding eyes had a bayoneted rifle, and he was stabbing someone—a boy or a girl—with it."

A picture choice

THE next day the subject was shown three color slides and asked, **I** in the light of his dreams experience, for his reactions. The slides were: 1) a peaceful country landscape, 2) a red-and-white striped speedboat racing through the water, and 3) the massive chromium bumper and radiator grille of a late-model car, bearing down at an angle on the camera.

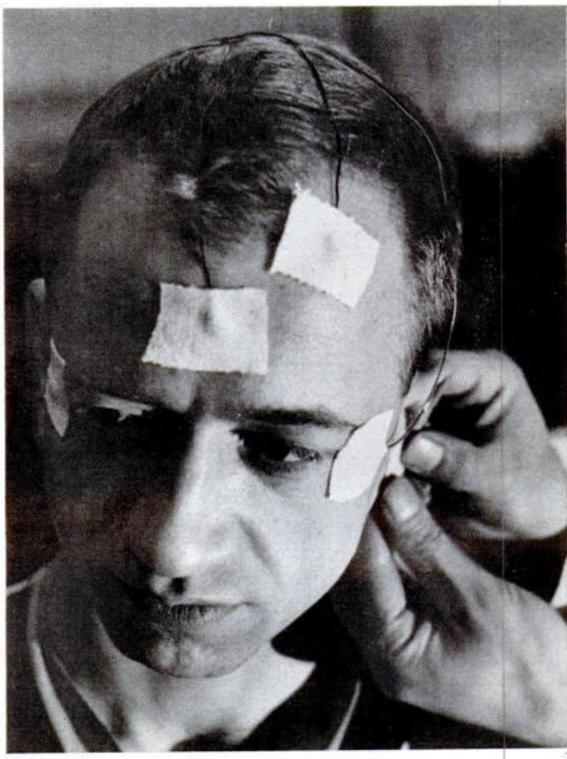
The subject waved away the landscape. He hesitated over the speedboat. But the car attracted him with magnetic force. It symbolized clash and peril. It seemed to be lunging forward, like the bayonet in his dream. The grille and bumper were the grinning lips and shining teeth of the barbaric soldier. The headlights were the soldier's bulging eyes. "I feel the same terror I felt in my dream," he said. "This must be the picture you showed me yesterday." It was.

As for the dog, it is likely that the chromium in the stimulus found its way into the subject's dream images in the animal's "silvery eyes."

"We are pretty sure," says New York University Psychologist Dr. George Klein, who collaborated with Shapiro and Goodenough, "that the myriad bits of information we register without being aware of it can reach our consciousness in dreams. In any event, as this test demonstrated, the technique developed in Chicago gives us an opportunity to find out. It could lead to revolutionary knowledge."

Much as the scientists have learned and hope to learn through future research, they still confront some of the old mysteries. What do dreams mean? Where do they come from? Are they random scraps of memories, by chance recalled and not worth a second thought? Are they tales we tell, to pass the time of sleep? Or are they letters from the underground deep within?

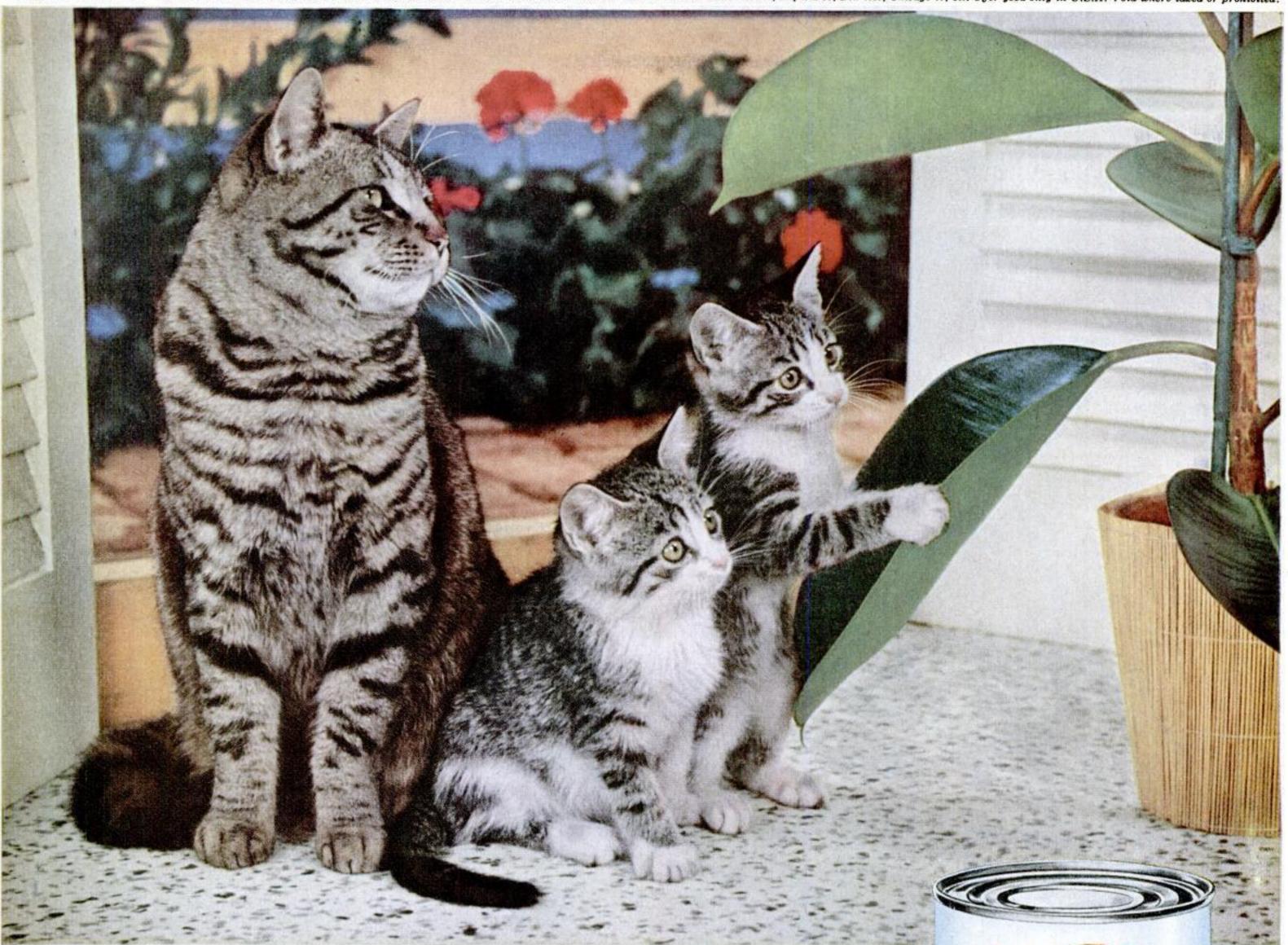
Until we know, Kleitman says, "The best way to look upon dreaming is as something that is there, like rain or snow-pleasant at times and for certain persons, painful at other times and for other persons."



PREPARING FOR ANOTHER TEST, a subject in Chicago sleep laboratory has electrodes affixed to his scalp to record his brain waves and eyeball movements during the night ahead.

SEWER MACHINE

RAZOR-KLEENS



"My cat has never had a sick day -has never eaten any other food"

Life balance of whole fish makes Puss 'n Boots the ideal food for cats

To her letter, quoted above, Mrs. R. S. R. of New York City adds: "Our cat is perfectly developed and beautifully furred. She has never missed a meal, and has never needed any vitamins or other supplements to her daily diet of Puss 'n Boots."

Nature's perfect cat food

This owner's experience again proves the benefits of Puss 'n Boots whole fish formula. For research shows that whole fish contains the ideal balance of life-giving nutrients and is nature's own perfect cat food.

Puss 'n Boots retains the natural life balance of fresh-caught whole fish -including the protein-rich fillets. It supplies an abundance of vitamins, minerals and the other nutrients cats of all ages need for good health and energy. Extra Vitamin B₁ is added for appetite and good digestion, plus tasty cereals for all-round good nutrition.

Start your cat on a regular diet of Puss 'n Boots soon. You'll quickly see the benefits in the health, beauty and vigor of your pet.

CHECK YOUR CAT against these characteristics of healthy cats fed regularly on Puss'n Boots:

> GROWTH AND VIGOR from highquality proteins in Puss'n Boots. GOOD APPETITE from the extra

Vitamin B1 in Puss'n Boots. NORMAL REGULARITY from the selected cereals in Puss'n Boots.

STRONG BONES from the calcium and phosphorus in Puss'n Boots.

SILKY FUR from the natural oils and minerals in Puss'n Boots.

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How the Natural Life Balance of WHOLE FISH is Retained in Puss'n Boots

Costly Fillets, rich in Liver and Glands, high-quality pro-teins. Usually re-vitamins. Vital for served for human health. Often exconsumption, but re- tracted for medicinal tained in Puss 'n use, but retained in Boots. Puss 'n Boots.

Packed in 8-oz. and 15-oz. sizes.



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Quality makes it America's largest selling cat food



NEWEST HIT FOR HURRY-UPPERS ...

Chun King Frozen Cantonese Dinner

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One picture is worth 1000 words" says Chinese proverb. Doesn't this new Chun King Cantonese Dinner look good? We need words only to say that it lives up to its looks and to tell you all you get. Two Cantonese egg rolls made from delicate little fresh shrimp, meat, vegetables and fresh eggs wrapped in crispy-thin pastry. Famous Chun King Chicken Chop Suey with nice big pieces of tender chicken and almonds. Fluffy Oriental white rice. Set that before your family and they'll find a thousand words of praise!

This Cantonese Dinner is only one of many Chun King

frozen delicacies—everything from chicken chow mein to egg rolls and egg foo young. Chun King is the name that's brought new excitement to your grocer's frozen food cabinets. Look for it when you shop.

CHUN KING

The Royalty of American-Oriental Foods®



* TWO RISING LUMINARIES HUDDLE WITH POLISH HOST (RIGHT). KIRICHENKO BLOWS SMOKE AS HIS HANDSOME COLLEAGUE, KOZLOV, CONVERSES EMPHATICALLY

NEW PARTY BRASS AT PARTY

Kremlin's two 'K' kids make a Moscow bow

A Moscow party to celebrate 13 years of postwar Polish-Russian palship last week put some high-power guests on public display. They were Nikita Khrushchev and two new big wheels in his Kremlin machine, Frol Kozlov, a first deputy premier, and Alexei Kirichenko, member of the party secretariat. Emerging to prominence with Khrushchev's recent take-over of the premier's job, Kozlov now seems to be Khrushchev's top new man in government and Kirichenko the same in the party.

Kozlov, a handsome man, turned out to be a suave partygoer. The beefier Kirichenko proved a hearty hand at the buffet provided by Polish Ambassador Tadeusz Gede. Both were much in evidence as Khrushchev kept up his reputation as a talkative type (next page) by twitting U.S. Ambassador Llewellyn Thompson with boasts that Russia will soon beat the U.S. at its own game—producing consumer goods.



BUSY AT BUFFET, Khrushchev handily plants the ham in sandwich as attentive hostess, Madame Gede,

watches solicitously. At left Kirichenko munches thoughtfully while eyeing table for his next target.





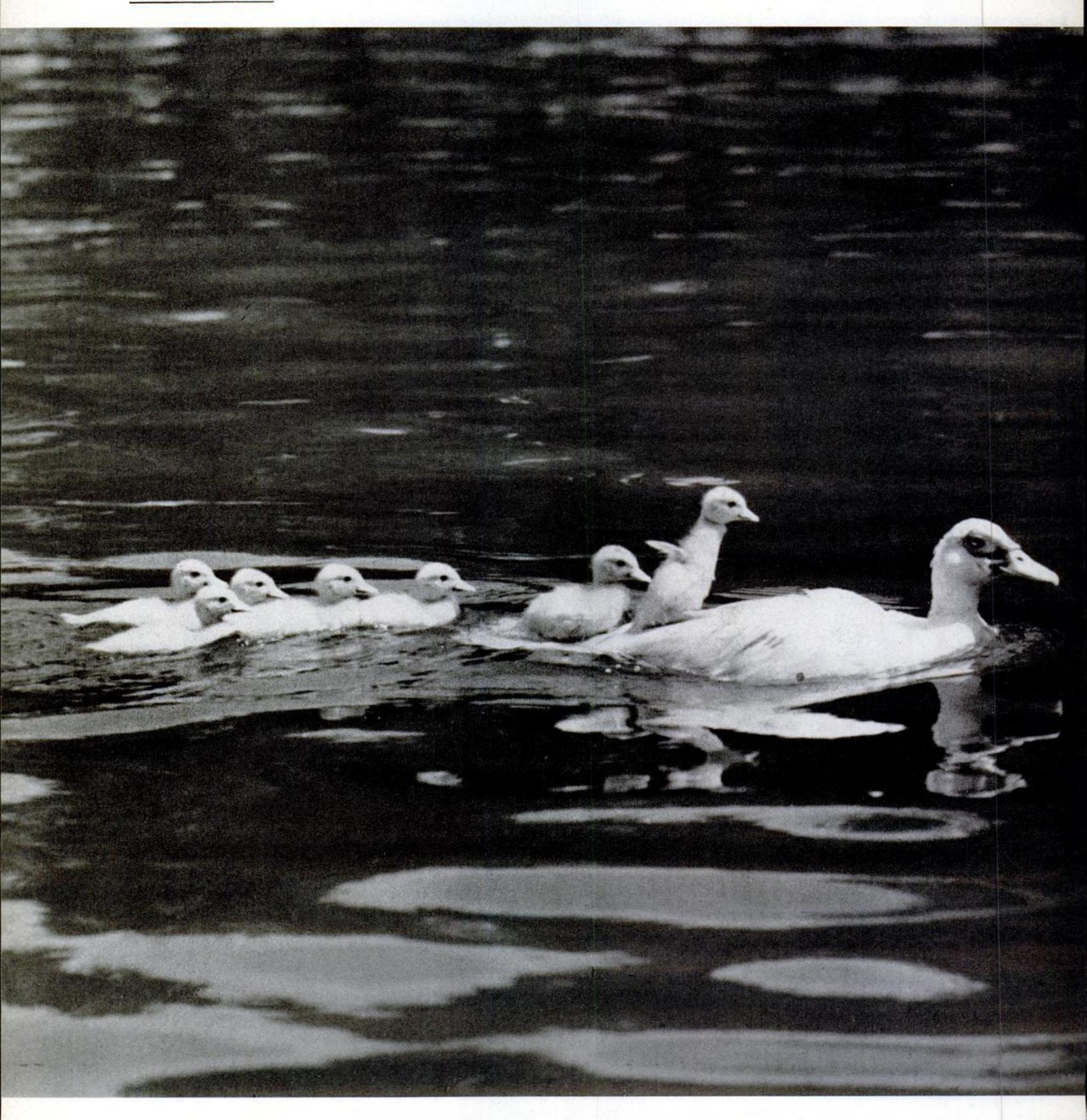


GOADING AMERICA, Nikita lectures U.S. ambassador with expansive gestures. "Mr. Thompson." he says, "watch out, we are stepping on your tail." Mugging

appreciatively, Foreign Minister Gromyko (right) looks pious as Nikita raises fists, incredulous as he makes prayerful gesture, pleased as the boss flings arms wide.



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A DOUBLE DUCKER TRANSPORT

The Curtis Walkers had some ducks on their farm not far from San Antonio, Texas. There were no lakes or ponds where the ducks could swim so Mr. Walker decided to put them in the swimming pool. He plopped the seven ducklings into the pool with their mother. They splashed about but, never having been in the water before, the ducklings seemed frightened. They swam along behind their mother and tried to climb up on her back. The mother, seeming to feel that her offspring should take to the water like ducks, shook them off as fast as she could. But two of the ducklings managed to get up on her back and one of them, which stood up and preened itself, was so far up that it couldn't be shaken off.



Charter member addresses the Four Roses Society

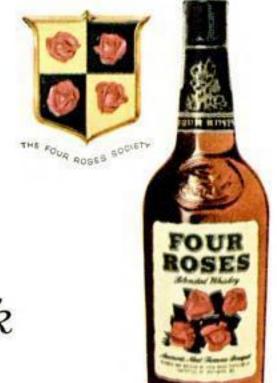
(Have you joined?)

"There are part-time members of our Society, gentlemen—those who reserve Four Roses Whiskey for special occasions. For Christmas, birthdays, anniversaries and the like.

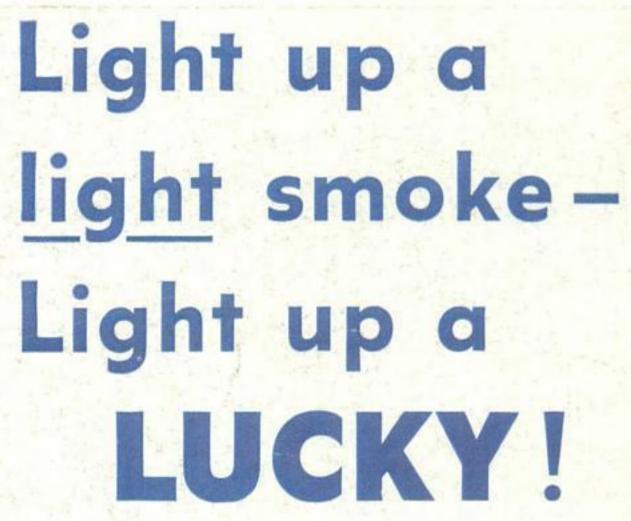
"We must enlighten these people. We must

point out that the marvelous mellowness and incomparable smoothness of Four Roses make every drink an occasion. And so we ask:

"What reason is there for any man ever to settle for less than the perfect distillation!"



You belong with Four Roses...the sociable drink





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